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ARAC

INDUSTRIAL APPLICATIONS SERVICE

KWIC INDEX

FOR ALL ANNOUNCEMENTS

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SPECIAL REPORT

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KWIC INDEX OF INDUSTRIAL APPLICATIONS REPORTS

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The attached index contains all reports announced
by ARAC's Industrial Applications Service from
January, 1968 through December, 1968.
This represents a total of 408 reports.

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INTRODUCTION

The Aerospace Research Applications Center (ARAC) at Indiana University was established in 1962 as a cooperative effort between the National Aeronautics and Space Administration (NASA), the University, and industry. The purpose of the Center was to develop new and improved concepts and techniques to assist and accelerate the transfer of technology from the government sector into industrial applications.

Modern industrial needs require applications of the latest research findings across a broad spectrum of knowledge: scientific, technical, managerial and economic. Research application is the basic task of the Aerospace Research Applications Center.

ARAC was the first NASA-sponsored, university computerized information Center in the United States. Current operations make available to private industry the bulk of unclassified, government-sponsored research in America.

Over 500,000 technical reports form the Center's information base. Each month, thousands of additional reports pour into Center offices from NASA, the Department of Defense, the Department of Commerce, the Atomic Energy Commission, and other sources.

Due to the broad backgrounds of ARAC engineers and scientists, they are well-qualified to understand and interpret the problems of industrial firms. From the beginning of a membership, these information experts maintain close, personal contact with company staff members. They assist in pinpointing and defining interest areas, design search profiles to assist the location of pertinent reports, and analyze them to evaluate relevance to the stated problem. It is the high professional quality of the analyst-

the individual ARAC scientist - which gives the Center its capacity to serve modern industrial needs.

INDUSTRIAL APPLICATIONS SERVICE

One of the transfer systems developed by ARAC is the Industrial Applications Service (IAS). The primary purpose of IAS is to identify and disseminate reports which have a high probability of industrial applicability. This objective is attained through the generation of new ideas resulting from these reports as well as exposing technical people to a broad cross-section of technology where industrial application has been identified by ARAC.

To accomplish this, a weekly mailing of abstracts is sent to a large group of potential users. As a result, the technical content of subject areas covered includes a broad spectrum of topics with the major criterion being their relevancy to industrial problems or situations. A sample of the types of reports which have been sent out include a Handbook of Soviet Steels and Alloys, Research and Development of New Laser Materials, Bibliography on Adhesives, Seals and Gaskets, Non-Destructive Testing Survey and Soldering of Electrical Connections.

The primary sources of information utilized by ARAC are the semi-monthly publications of STAR (Scientific and Technical Aerospace Reports), IAA (International Aerospace Abstracts) and USGRDR (United States Government Research and Development Reports). To supplement these sources and glean the best reports available in terms of industrial application potential, a number of other sources such as the Electrical and Plastics Sections of Engineering Index and NSA (Nuclear Science Abstracts) are

also reviewed. In addition, NASA's Technology Utilization Division has a program to identify, appraise, and disseminate space technology which promises commercial application. NASA's report series consists of: Special Publications (SP), Technical Reports (TR), Technical Memorandums (TM), Technical Translations (TT), and Contractor Reports (CR). It is these information sources which form the inputs to the IAS.

Over 2000 Industrial Applications Reports have been sent out since the IAS was instituted five years ago. The purpose of the enclosed index - KWIC INDEX OF INDUSTRIAL APPLICATIONS REPORTS - is to provide a systematic comprehensive listing of the reports announced via ARAC's Industrial Applications Service.

METHOD OF INDEXING

In order to provide an efficient system for identifying these reports, the KWIC (Keyword-in-context) method of indexing has been utilized. The underlying principle of this type of index is that words instead of concepts can be used for indexing. Keywords - i.e. catchwords or essential words - can be extracted from the title. Thus, the context about a keyword helps to define or explain its use which leads the user to the pertinent report or other types of information he desires.

Information, to be readily available and useful, must be organized in a meaningful manner. One method would be to assign each piece of information a unique identifying number and arrange the pieces in order by this number. So long as the information may be retrieved in an efficient manner using the identification number alone, this is sufficient. However, if requirements dictate that the information must be retrieved on the basis of its content, then this system alone does not fulfill the requirement.

A second method of ordering information is by key word indexing - that is selecting words that characterize the content of the information and arranging these according to some system - usually alphabetic.

KWIC as applied to the Industrial Applications Reports utilizes both methods. Each IAR that is announced is assigned an identifying number (Ixxxx). This number, the title of the report, and any report number(s) assigned by the originating source (e.g. AD-, N-, TM-X, etc.) are sorted in the sequence of the identification number followed by all pertinent information for that report. This is called the BIBLIOGRAPHIC INDEX.

To facilitate a manual search of the file for a particular subject area or topic of interest, each title is machine-indexed (by the computer) under each significant word of the title. These index words are then sorted and listed alphabetically to produce the listing called the KWIC INDEX showing the keyword followed by the title of the report and its accompanying identification number.

HOW TO USE THE INDEX

This section will provide users of the index with information regarding the use of KWIC in general and the two separate listing in particular.

As mentioned above, the KWIC indexing method is based on keywords contained in the title of the report. Since the title is generally representative of the content of the report, this provides a rapid and convenient method of indexing. Where the title is misleading or perhaps incomplete, additional keyword descriptors may be used in terms of a secondary title which will augment the primary title to ensure its identification.

It is essential that the user should be aware of the special characteristics of this type of index. Also an appreciation of the primary differences between KWIC and the more conventional subject-heading indexes will greatly assist the user in his search for information. For these reasons, major consideration should be given to the following points:

- (1) the user should realize that he will need to look for synonyms of words that most precisely describe the subject;
- (2) the user should realize that he may have to search from the specific to the general when using KWIC;
- (3) user should be aware of terms used in relationship to the subject, even though these terms are not in a hierachial relationship.

The primary methods or techniques for using the indices are either to scan the report titles as presented in the BIBLIOGRAPHIC LISTING or, the more efficient mode of searching, by noting selected terms (noting above considerations) which sufficiently describe the subject and locating these in the KWIC INDEX. Whichever method is used will dictate whether one or both of the listings will have to be used to obtain the necessary report number for ordering the document.

By merely scanning the titles of the reports as listed in the BIBLIOGRAPHIC LISTING, the user is able to obtain the necessary information from this index to order the report. However, when the user is searching for selected key terms from the KWIC INDEX, it will be necessary to obtain the identification number (e.g. I1123) and cross-reference this number on the BIBLIOGRAPHIC LISTING for the government order number information.

ORDERING INFORMATION

Full copies of all reports can be obtained by noting the government report number(s) and report title as indicated in the illustration below:

| IDENTIFICATION NUMBER | REPORT TITLE |
|--------------------------|---|
| 10429 | <u>THERMOELECTRIC MATERIALS AND FABRICATION</u> |

General questions concerning either the index or the service available from ARAC may be directed to:

Manager of Technical Operations
Aerospace Research Applications Center
Indiana University Foundation
Indiana Memorial Union
Bloomington, Indiana 47401
Telephone (812) 337-8884

| | | |
|--------------|---|-------|
| ABRASIVE-JET | THE NON TRADITIONAL MACHINING PROCESSES. ABRASIVE-JET, EDM, ELECTRICAL DISCHARGE, ULTRASONIC, ELECTRON-LEAM, LASER DATE ANNOUNCED 12 13 68 | 11924 |
| ABSORPTION | A CONSTANT PRESSURE GAS ABSORPTION REACTOR. DISSOLVED GASES DATE ANNOUNCED 12 27 68 | 11922 |
| ABSORPTION | DETERMINATION OF BERYLLIUM BY ATOMIC ABSORPTION. SPECTROPHOTOMETRY. ANALYTICAL CHEMISTRY DATE ANNOUNCED 11 15 68 | 11872 |
| ABSORBIVITY | Thermal RADIATION HEAT TRANSFER - VOLUME I. BLACKBODY RADIATION, EMISSIVITY, ABSORPTIVITY, REFLECTIVITY, ELECTROMAGNETIC DATE ANNOUNCED 08 30 68 | 11787 |
| ACCEPTANCE | A DECISION THEORY APPROACH TO ACCEPTANCE TESTING. SAMPLING, INSPECTION, BAYESIAN DATE ANNOUNCED 04 26 68 | 11657 |
| ACCURACY | TIME-DIVISION ANALOG MULTIPLIER USING 11600 AN IMPROVED FULLWAVE MODULATOR TO MAINTAIN STATIC ACCURACY. DATE ANNOUNCED 03 29 68 | 11600 |
| ACETYLENE | CARBIDE SYNTHESIS BY METAL EXPLOSIONS 11606 IN ACETYLENE. DATE ANNOUNCED 05 16 68 | 11606 |
| ACIDS | MOLECULAR STRUCTURE OF STRONG ACIDS. 11738 IONIZATION DATE ANNOUNCED 07 19 68 | 11738 |
| ACOUSTIC | ACOUSTIC EMISSION IN METALS AS A NOT TUE. INSPECTION TESTING DATE ANNOUNCED 04 25 68 | 11613 |
| ACTIVATION | APPLICATIONS OF NEUTRON ACTIVATION TO 11649 ON-STREAM ANALYSIS. PROCESS, INSPECTION, MEASUREMENT DATE ANNOUNCED 05 03 68 | 11649 |

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| ACTIVATION | SOME PRINCIPLES OF ACTIVATION ANALYSIS, INSTRUMENTATION, ANALYTICAL CHEMISTRY DATE ANNOUNCED 05 14 68 | 11694 |
| ACTUATOR | DEVELOPMENT OF A MICROINCH ACTUATOR. 11817 PIEZOELECTRIC, ELECTROMECHANICAL DATE ANNOUNCED 09 27 68 | |
| ADAPTIVE | ON TWO TIME-SCALES IN LINEAR SYSTEMS - 11556 WITH SPECIAL REFERENCE TO ADAPTIVE CONTROL. FEEDBACK DATE ANNOUNCED 01 26 68 | |
| ADDITIVE | LUBRICANT ADDITIVE EFFECTS UPON BREAKING METAL FATIGUE. 11514 EFFECTS IN MULTI-PURPOSE SOAP THICKENED GREASES. DATE ANNOUNCED 01 05 68 | |
| ADDITIVES | EFFECTIVENESS OF ANTICORROSION ADDITIVES IN DEICING SALTS. CORROSION, FLADS, ICE, SNOW DATE ANNOUNCED 12 15 68 | 11932 |
| ADHEREND | EFFECT OF MECHANICAL PROPERTIES OF ADHEREND ON ADHESIVE BOND STRENGTHS. JOINING, BONDING DATE ANNOUNCED 02 16 68 | 11558 |
| ADHESION | SURFACES AND INTERFACES IN MATERIALS 11541 TECHNOLOGY. ADHESION, FRICITION DATE ANNOUNCED 02 02 68 | |
| ADHESION | FRICITION, WEAR, AND THE INFLUENCE OF 11599 SURFACES. FATIGUE, ADHESION DATE ANNOUNCED 03 22 68 | |
| ADHESIVE | EFFECT OF MECHANICAL PROPERTIES OF ADHEREND ON ADHESIVE BOND STRENGTHS. JOINING, BONDING DATE ANNOUNCED 02 16 68 | 11558 |
| ADHESIVE | DEVELOPMENT OF MULTIPURPOSE CAPSULAR 11550 ADHESIVE SYSTEMS*. JOINING DATE ANNOUNCED 02 09 68 | |

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| ADHESIVE | EFFECT OF RELATIVE HUMIDITY ON ADHESIVE BONDING TO ALUMINUM ALLOY. JOINTING DATE ANNOUNCED 13 28 68 | 11585 |
| ADHESIVE | ADHESIVE BONDING OF STAINLESS STEELS 11676 - INCLUDING PRECIPITATION-HARDENING STAINLESS STEELS. DATE ANNOUNCED 15 24 68 | |
| ADHESIVE | STUDY OF MICROMECHANICAL PROPERTIES 11635 OF ADHESIVE BONDED Joints. EPON DATE ANNOUNCED 14 19 68 | |
| ADHESIVE | SELECTING SURFACE PREPARATION PROCESSES FOR ADHESIVE BONDING, SEALING, AND COATING DATE ANNOUNCED 10 14 68 | 11622 |
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| AFFECTED | THE DESIGN AND CONSTRUCTION OF A WELD HEAT AFFECTED ZONE SIMULATOR. HAZ, MICROSTRUCTURE | 11840 |
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| AGENTS | EFFECTS OF ALKALI METAL GETTERING AGENTS ON STAINLESS STEEL CORROSION. | 11639 |
| | DATE ANNOUNCED 04 26 68 | |
| AID | DECIDE A COMPUTER SOLUTION OF PROBABILISTIC NETWORKS TO AID DECISION MAKING INVOLVING UNCERTAINTY. PLANNING | 11756 |
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| AIRCRAFT | NOISE--SOUND WITHOUT VALUE. INDUSTRIAL HEALTH, AIRCRAFT, HEARING | 11905 |
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| AIR-BEARING | AIR-BEARING SPINDEL FOR MACHINE TOOLS - SPHERICAL DESIGN. BEARING, NUMERICAL CONTROL | 11694 |
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| BALL | PRELIMINARY EVALUATION OF GREASES TO 315 C AND SOLID LUBRICANTS TO 610 C IN BALL BEARINGS | DATE ANNOUNCED 07 26 68 | 11746 |
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| BATTERIES | PRIMARY AND SECONDARY GALVANIC CELLS--HISTORY AND STATE-OF- THE-ART SUMMARY. ELECTROCHEMICAL, BATTERIES, EMF DATE ANNOUNCED 11 06 68 | 11804 |
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| BEAM | X-RAY MICROSCOPY APPLIED TO MATERIALS SCIENCE, INCLUDING DIVERGENT BEAM ANALYSIS--BIBLIOGRAPHY. MICRORADIOGRAPHY, REFLECTION, MICROSCOPY DATE ANNOUNCED 11 26 68 | 11865 |
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| BEARINGS | PRELIMINARY EVALUATION OF GREASES TO 310 C AND SOLID LUBRICANTS TO 810 C IN BALL BEARINGS DATE ANNOUNCED 7 26 68 | 11746 |
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| BEEN | SYSTEMS ENGINEERING--BUT ISN'T THAT WHAT I'VE BEEN DOING ALL ALONG. DATE ANNOUNCED 11 29 68 | 11885 |
| BEHAVIOR | BEHAVIOR OF BOLTED JOINTS WITH OVERSIZE OR SLOTTED HOLES. FASTENER, STRUCTURAL TESTING, MECHANICAL TESTING DATE ANNOUNCED 08 26 68 | 11712 |
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| | DATE ANNOUNCED 08 02 68 | |
| DECISION | A DECISION THEORY APPROACH TO ACCEPTANCE TESTING. SAMPLING, INSPECTION, BAYESIAN | I1657 |
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| DECISION | A TECHNIQUE FOR PROBABILITY ASSIGNMENT IN DECISION ANALYSIS | I1769 |
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| DECODER | A RESYNCHRONIZATION TECHNIQUE FOR A SEQUENTIAL DECODER. | I1560 |
| | DATE ANNOUNCED 02 10 68 | |
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| | DATE ANNOUNCED 10 11 68 | |
| DEEMED | FURGE CONVERSION DEEMED BREAKTHROUGH. PRESS, METAL FORMING | I1533 |
| | DATE ANNOUNCED 01 26 68 | |
| DEFICIENT | MINIATURE BILEVEL ALARM FOR OXYGEN DEFICIENT ATMOSPHERES. SAFETY DEVICE, CELL | I1644 |
| | DATE ANNOUNCED 10 18 68 | |
| DEFORMATION | DEFORMATION PROCESSING OF PRECIPITATION-HARDENING STAINLESS STEELS. MECHANICAL PROPERTIES, METALLIC MATERIALS, HIGH STRENGTH ALLOYS | I1685 |
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| DEFORMATION | THE ROLE OF ENERGY IN DEFORMATION. STRESS, STRAIN, MECHANICAL BEHAVIOR, FRACTURE, PLASTIC FLOW DATE ANNOUNCED 05 31 68 | 11682 |
| DEFORMATION | CREPL, STRENGTH, AND ELASTICITY OF CONCRETE AT ELEVATED TEMPERATURES. MATERIALS TESTING, TEMPERATURE, CONCRETE TESTING DEFORMATION, COMPRESSIVE STRENGTH DATE ANNOUNCED 09 26 68 | 11810 |
| DEGRADED | AN ANALYTICAL GAS CHROMATOGRAPH FOR PRODUCTS OF ISOTHERMALLY DEGRADED POLYMERS. PYROLYSIS, GAS CHROMATOGRAPHY DATE ANNOUNCED 11 15 68 | 11874 |
| DEICING | EFFECTIVENESS OF ANTI-CORROSION ADDITIVES IN DEICING SALTS. CORROSION, SALTS, ICE, SNOW DATE ANNOUNCED 12 13 68 | 11902 |
| DEMONSTRATOR | DEVELOPMENT OF AN AUTOMATIC PROCESS START-UP DEMONSTRATOR. CONTROL, PNEUMATIC DATE ANNOUNCED 02 05 68 | 11551 |
| DESALINATION | TRANSPORT OF ELECTROLYTES THROUGH MEMBRANE SYSTEMS. DESALINATION, ELECTROOSMOSIS, ELECTRODIALYSIS DATE ANNOUNCED 12 13 68 | 11903 |
| DESIGNERS | INFORMATION SOURCES ON RUBBER FOR ENGINEERS AND DESIGNERS. DATE ANNOUNCED 01 05 68 | 11510 |
| DESINEES | INFORMATION CENTERS FOR DESIGNERS. RETRIEVAL DATE ANNOUNCED 12 26 68 | 11916 |
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| DEVELOPMENT | THE DEVELOPMENT OF AN ALKALI METAL VAPOR ARC LAMP. LIGHT, LIGHT SOURCE | 11578 |
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| DEVELOPMENT | DEVELOPMENT OF SOLVENT RESISTANT SEALANTS (1965). URETHANE | 11733 |
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| DEVELOPMENT | DEVELOPMENT OF FLEXIBLE EPOXY RESINS AND COATINGS | 11681 |
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| DEVELOPMENT | DEVELOPMENT OF NON-DESTRUCTIVE METHODS FOR DETERMINING RESIDUAL STRESS AND FATIGUE DAMAGE IN METALS. ULTRASONIC, TRANSDUCER SURFACE RESISTANCE | 11782 |
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| DEVELOPMENT | NASA CONTRIBUTIONS TO THE DEVELOPMENT OF SPECIAL PURPOSE THERMOCOUPLES. TEMPERATURE, HIGH TEMPERATURE, HEAT, CRYOGENICS | 11855 |
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| DEVELOPMENT | THE DEVELOPMENT OF NEW STRUCTURAL MATERIALS. CERAMICS, FIBERS, MATRIX, PLASTICS | 11828 |
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| DEVELOPMENT | ELECTROCHEMICAL MACHINING--PROCESS AND TOOLING DEVELOPMENT FOR FERROUS ALLOYS. STAINLESS STEEL, ALLOY STEELS, HYDROGEN EMERGENCE | 11834 |
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| DEVELOPMENT | DEVELOPMENT OF A MICROINCH ACTUATOR. PIEZOELECTRIC, ELECTROMECHANICAL | 11817 |
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| DEVELOPMENTS | CURRENT DEVELOPMENTS IN FIBER REINFORCED COMPOSITES | 11755 |
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| DEVICE | PREVENTION OF STRESS-CORROSION FAILURE IN IRON-NICKEL-COBALT ALLOY SEMICONDUCTOR DEVICE LEADS. ELECTRONICS, CIRCUIT | 11517 |
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| DEVICE | MICROELECTRONIC DEVICE DATA HANDBOOK--VOLUME III-- MANUFACTURER AND SPECIFIC DEVICE INFORMATION. DIGITAL, LINEAR, CIRCUITS, AMPLIFIER, DECODERS, COUNTERS | 11829 |
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| DIFFRACTION | IDENTIFICATION AND CHARACTERIZATION OF ELECTROCHEMICAL REACTION PRODUCTS BY X-RAY DIFFRACTION. CORROSION, ANALYTICAL CHEMISTRY DATE ANNOUNCED 05 31 68 | I1683 |
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| DIFFRACTION | TIME-DEPENDENCE OF CRYSTAL ORIENTATION IN CRYSTALLINE POLYMERS. (POLYETHYLENE, X-RAY DIFFRACTION, LIGHT SCATTERING DATE ANNOUNCED 09 20 68 | I1807 |
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| DIGITAL | MICROELECTRONIC DEVICE DATA HANDBOOK--VOLUME II-- MANUFACTURER AND SPECIFIC DEVICE INFORMATION. DIGITAL, LINEAR, CIRCUITS, AMPLIFIER, DECODERS, COUNTERS DATE ANNOUNCED 10 11 68 | I1829 |

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| SILATOMETER | DEVELOPMENT OF A HIGH-TEMPERATURE INTERFEROMETRIC SILATOMETER USING A LASER LIGHT SOURCE | I1775 |
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| DILEMMA | THE MICROELECTRONICS DILEMMA. LEAD-LEAD, SILICON, MICROSCIRCUITS | I1819 |
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| DIMENSION. | TRANSIENT RADIGRAPHY FOR DIMENSION MEASUREMENTS. | I1697 |
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| DIODE | DEVELOPMENT OF MATHEMATICAL MODELS OF SEMICONDUCTOR DEVICES FOR COMPUTER-AIDED CIRCUIT ANALYSIS. | I1525 |
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| DIRECT | DIRECT SIMULATION OF A-C MACHINERY. ANALYSIS, ELECTRICAL EQUIPMENT | I1584 |
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| DIRECT | A SERVOCONTROLLER FOR PROGRAMMING SAMPLE VAPORIZATION IN DIRECT CURRENT ARC SPECTROCHEMICAL ANALYSIS. ANALYTICAL CHEMISTRY | I1833 |
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| DIRECTION | A SMALL COMBINATION SENSING PROBE FOR MEASUREMENT OF TEMPERATURE, PRESSURE, AND FLOW DIRECTION. NONE | I1868 |
| | DATE ANNOUNCED 11 08 68 | |
| DISC | THE DISC FLUXMETER DEVELOPED AT ESTEC. RADIENT ENERGY | I1651 |
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| DISCHARGE | BASIC ELECTRICAL DISCHARGE MACHINING CHARACTERISTICS AND ASSOCIATED ELECTRODE MATERIALS AND COOLANTS. EDM | I1582 |
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| DISCHARGE | ELECTRICAL DISCHARGE MACHINING COVERING THE PERIOD 1961 TO 1967. EDM, MACHINING DATE ANNOUNCED 10 11 68 | I1832 |
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| DISCUSSION | DISCUSSION OF ROTARY JOINT CHARACTERISTICS FOR FREQUENCIES OUT OF THE DESIGN BAND. FILTERS, CABLE DATE ANNOUNCED 13 01 68 | I1579 |
| DISPERSION | USE OF SURFACE REPLICATION, EXTRACTION REPLICATION, AND THIN-FILM ELECTRON MICROSCOPY IN THE STUDY OF DISPERSION-STRENGTHENED MATERIALS. MICROSTRUCTURE DATE ANNOUNCED 04 15 68 | I1615 |
| DISPERSION-STRENGTHENED | PROPERTIES AND APPLICATIONS OF DISPERSION-STRENGTHENED METALS. METALLURGY, ALLOY, MATRIX DATE ANNOUNCED 09 13 68 | I1798 |
| DISPLAY | SIMULTANEOUS 8-CHANNEL CATHODE RAY TUBE DISPLAY SYSTEM OSCILLOSCOPE DATE ANNOUNCED 06 21 68 | I1738 |
| DISPLAY | AN INTRODUCTION TO MULTICOLOR HOLDOGRAPHY. LIGHT, DISPLAY DATE ANNOUNCED 07 26 68 | I1743 |
| DISPLAY | VISUAL INFORMATION DISPLAY SYSTEMS. COMPUTER, SIMULATION DATE ANNOUNCED 09 20 68 | I1811 |
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| DISSIMILAR | A PRELIMINARY STUDY OF THE CO-EXTRUSION OF DISSIMILAR METALS. FABRICATION, EXTRUSION DATE ANNOUNCED 03 22 68 | I1597 |
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| DISSOLVED | A CONSTANT PRESSURE GAS ABSURPTION REACTOR. DISSOLVED GASES DATE ANNOUNCED 12 27 68 | I1922 |
| DISTILLATION | CONSTRUCTION AND OPERATION OF A SODIUM PURIFICATION APPARATUS. GETTERING, DISTILLATION DATE ANNOUNCED 01 26 68 | I1540 |
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| DOING | SYSTEMS ENGINEERING--BUT ISN'T THAT WHAT I'VE BEEN DOING ALL ALONG. DATE ANNOUNCED 11 29 68 | I1835 |
| DOSIMETER | FREE RADICAL YIELDS IN POLYTETRAFLUOROETHYLENE AS THE BASIS FOR RADIATION DOSIMETER DATE ANNOUNCED 07 12 68 | I1731 |
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| DRIVE | HIGH SPEED HARMONIC DRIVE SPEED REDUCER DATE ANNOUNCED 06 14 68 | I1700 |

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| ELASTICITY | CREEP, STRENGTH, AND ELASTICITY OF CONCRETE AT ELEVATED TEMPERATURES. MATERIALS TESTING, TEMPERATURE, CONCRETE - TESTING DEFORMATION, COMPRESSIVE STRENGTH DATE ANNOUNCED 19 20 68 | I1810 |
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| ELASTIC-PLASTIC | A SUGGESTED METALLURGICAL PARAMETER IN ALLOY SELECTION FOR CAVITATION RESISTANCE. ELASTIC-PLASTIC STRAIN ENERGY DATE ANNOUNCED 11 15 68 | I1873 |
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| ELASTOMER | PHYSICAL AND RHEOLOGICAL PROPERTIES OF FLUORONITRILE RUBBERS. SOLVENT RESISTANT, LOW TEMPERATURE, ELASTOMER DATE ANNOUNCED 12 27 68 | I1918 |
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| ELECTRIC | LOW VOLTAGE CONTACTLESS SWITCHING USING THYRISTORS. ELECTRIC MOTORS DATE ANNOUNCED 05 24 68 | I1673 |

- ELECTRIC SLIP POWER RECOVERY IN AN INDUCTION I1674
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| EPOXY | QUICK-CURING FOAM SYSTEMS. POLYURETHANE, EPOXY, SILICONE, INSULATION | I1920 DATE ANNOUNCED 12-27-68 |
| EPOXY | DEVELOPMENT OF SILOXANE-CONTAINING EPOXY POLYMERS FOR ELECTRICAL CIRCUIT EMBEDMENT APPLICATIONS. DIELECTRIC CONSTANT | I1358 DATE ANNOUNCED 11-11-68 |
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| EQUIPMENT | DIRECT SIMULATION OF A-C MACHINERY. ANALYSIS, ELECTRICAL EQUIPMENT | I1534 DATE ANNOUNCED 03-18-68 |
| EQUIPMENT | ELECTRONIC INSTRUMENTATION TECHNIQUES. TESTING, CALIBRATION, METER | I1571 DATE ANNOUNCED 12-23-68 |
| EQUIPMENT | GREASES . A METHOD FOR DETERMINING HIGH SHEAR STABILITY. LUBRICANTS, TEST EQUIPMENT | I1754 DATE ANNOUNCED 08-02-68 |
| EQUIPMENT | A METHOD FOR DETERMINING AND TESTING FOR SECOND BREAKDOWN CHARACTERISTICS IN TRANSISTORS. TEST EQUIPMENT, LOAD-LINE ANALYSIS | I1897 DATE ANNOUNCED 12-06-68 |
| ERROR-CORRECTING | MICROPOWER ERROR-CORRECTING REDUNDANT CIRCUIT DESIGN. ELECTRONICS | I1531 DATE ANNOUNCED 01-19-68 |
| ESTEC | THE DISC FLUXMETER DEVELOPED AT ESTEC. RADIANT ENERGY | I1651 DATE ANNOUNCED 05-03-68 |
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| EVALUATIVE | DEVELPMENT OF PERFORMANCE EVALUATIVE MEASURES. ELECTRONICS, MAINTENANCE DATE ANNOUNCED 04 12 68 | I1622 |
| EXCHANGERS | PERFORMANCE OF TITANIUM IN THE CHEMICAL INDUSTRY. CORROSION, HEAT EXCHANGERS, VESSELS DATE ANNOUNCED 12 25 68 | I1915 |
| EXCITER | THE DEVELOPMENT OF A HYDRAULIC EXCITER FOR THE INVESTIGATION OF MACHINE TOOLS. MACHINING DATE ANNOUNCED 09 06 68 | I1793 |
| EXPENDABLE-WIRE | RESISTANCE SPOT WELDING STAINLESS STEEL FOIL BY THE EXPENDABLE-WIRE TECHNIQUE. FASTENING, JOINING DATE ANNOUNCED 11 18 68 | I1862 |
| EXPERIMENTAL | STUDIES AND EXPERIMENTAL INVESTIGATIONS IN CONNECTION WITH CHEMICAL BONDING IN RESIN-TREATED CELLULOSE. DATE ANNOUNCED 01 19 68 | I1530 |
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| EXPLOSION | METALLURGICAL CHARACTERISTICS OF HIGH STRENGTH STRUCTURAL MATERIALS. FRACTURE TOUGHNESS, EXPLOSION TEAR, WELDS DROP WEIGHT TEAR, CHARPY, HY-81, TITANIUM, ALUMINUM 2024 DATE ANNOUNCED 11 22 68 | I1881 |

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| EXPLOSIONS | GASIOUS EXPLOSIONS IN DUCTS. INDUSTRIAL SAFETY, FIRE EXTINGUISHERS | I1671 |
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| EXPOSURE | UXIRANE-POLYESTER RESIN SYSTEM IN AIR DRYING GLOSS ATMOSPHERIC EXPOSURE, CHEMICAL RESISTANCE, CHALKING DATE ANNOUNCED 11 01 68 | I1857 |
| EXTENSOMETER | AN EXTENSOMETER CALIBRATING RIG. TENSILE, MECHANICAL TESTING, INSTRUMENTATION DATE ANNOUNCED 09 13 68 | I1800 |
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| EXTRACTION | USE OF SURFACE REPLICATION, EXTRACTION REPLICATION, AND THIN-FILM ELECTRON MICROSCOPY IN THE STUDY OF DISPERSION-STRENGTHENED MATERIALS. MICROSTRUCTURE DATE ANNOUNCED 04 05 68 | I1615 |
| EXTRAPOLATION | COMPUTERIZED ARRHENIUS RELIABILITY EXTRAPOLATION TECHNIQUES. FAILURE, TESTING DATE ANNOUNCED 12 20 68 | I1912 |
| EXTRUSION | A PRELIMINARY STUDY OF THE CO-EXTRUSION OF DISSIMILAR METALS. FABIRCATION, EXTRUSION DATE ANNOUNCED 03 22 68 | I1597 |
| FABIRCATION | A PRELIMINARY STUDY OF THE CO-EXTRUSION OF DISSIMILAR METALS. FABIRCATION, EXTRUSION DATE ANNOUNCED 03 22 68 | I1597 |

- FABRIC DEVELOPMENT OF HIGH-INTENSITY THERMAL I1527
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- FABRICATION EVALUATION OF MAGNETIC PULSE FORMING I1619
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- FABRICATION FASTENERS AND FASTENING TECHNIQUES. I1589
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- FABRICATION FASTENERS AND FASTENING TECHNIQUES. I1741
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| MOTORS | LOW VOLTAGE CONTACTLESS SWITCHING USING THYRISTORS. ELECTRIC MOTORS DATE ANNOUNCED 05 24 68 | I1673 |
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| OPERATIONAL COMPENSATION | OPERATIONAL AMPLIFIERS FOR USE IN NUCLEAR SPECTROSCOPY. DATE ANNOUNCED 03 22 68 | 11614 |
| OPTICAL | ANALOGUE AND DIGITAL METHODS FOR INVESTIGATING ELECTRON- OPTICAL SYSTEMS. • DATE ANNOUNCED 03 15 68 | 11592 |
| OPTICAL | INVESTIGATION OF ELECTRONIC INTERACTION WITH OPTICAL RESONATORS FOR MICROWAVE GENERATION AND AMPLIFICATION. DATE ANNOUNCED 01 12 68 | 11522 |
| OPTICS | VIBRATION ANALYSIS BY HOLOGRAPHIC AND CONVENTIONAL INTERFEROMETRY. OPTICS, MEASUREMENT DATE ANNOUNCED 05 23 68 | 11647 |
| OPTICS | HIGH-POWER INCOHERENT LIGHT SOURCES. OPTICS DATE ANNOUNCED 04 19 68 | 11634 |
| OPTIMAL | FIRST-COME-FIRST-SERVE SCHEDULING IS OFTEN OPTIMAL. PART I- SYMMETRY-CONVEXITY. PRODUCTION DATE ANNOUNCED 02 09 68 | 11554 |
| OPTIMIZATION | OPTIMIZATION STUDY OF CIRCUIT CARD DESIGN. PRINTED CIRCUIT, COMPUTER DATE ANNOUNCED 07 26 68 | 11748 |
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| ORDNANCE | IDENTIFICATION OF PLASTICS USED IN NAVAL ORDNANCE. TESTING DATE ANNOUNCED 04 26 68 | 11641 |

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| DRE | CONTINUOUS, ON-LINE, NUCLEAR ANALYSIS MEASUREMENTS IN THE PROCESS CONTROL APPLICATIONS. CHEMICAL, BAUXITE, COAL, COPPER, TACONITE, URE | I1834 |
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| ORGANIC | SURFACE POTENTIALS OF ADSORBED ORGANIC MONOLAYERS ON METALS. OIL, CHROME, STEEL | I1539 |
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| ORGANIC | QUANTITATIVE STUDY OF SOME ORGANIC COMPOUNDS BY X-RAY DIFFRACTION. | I1654 |
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| ORIENTATION | TIME-DEPENDENCE OF CRYSTAL ORIENTATION IN CRYSTALLINE POLYMERS. POLYETHYLENE, X-RAY DIFFRACTION, LIGHT SCATTERING | I1807 |
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| OSCILLATOR | ELECTRONIC CIRCUITS. OSCILLATOR, AMPLIFIER, POWER SUPPLY | I1667 |
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| OSCILLATOR | A PRECISION PORTABLE OSCILLATOR. CRYSTAL OVENS, TRANSISTOR | I1657 |
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| OSCILLATOR | STUDIES OF A FLUIDIC OSCILLATOR AS A TEMPERATURE SENSOR. CONTROL | I1815 |
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| OSCILLATORS | TEMPERATURE PERFORMANCE MEASUREMENT METHODS FOR TEMPERATURE-COMPENSATED QUARTZ OSCILLATORS | I1695 |
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| OSCILLOGRAPH | LOW FREQUENCY SUB-AUDIO TRIPLEXER. OSCILLOGRAPH, RECORDER, INSTRUMENTATION | I1680 |
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| OSCILLOSCOPE | SIMULTANEOUS 8-CHANNEL CATHODE-RAY TUBE DISPLAY SYSTEM | I1738 |
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| DUT | DISCUSSION OF ROTARY JOINT CHARACTERISTICS FOR FREQUENCIES OUT OF THE DESIGN BAND. FILTERS, CABLE | I1579 |
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| OUTER | SILICONES IN OUTER SPACE. ELASTOMERS, RESINS, LUBRICANTS | I1813 |
| | DATE ANNOUNCED 09 27 68 | |
| OUTPUT | AC-DC-TO-DC CONVERTER WITH CONSTANT OUTPUT VOLTAGE. TRANSISTOR, INVERTER | I1846 |
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| OVENs | A PRECISION PORTABLE OSCILLATOR. CRYSTAL OVELS, TRANSISTUR | I1657 |
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| OVERHEAT | FIBERCELL OVERHEAT HAZARD DETECTION SYSTEM. CERAMIC, ELECTROCHEMICAL, CELL | I1778 |
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| OVERSIZE | BEHAVIOR OF BOLTED JOINTS WITH OVERSIZE OR SLOTTED HOLES. FASTERER, STRUCTURAL TESTING, MECHANICAL TESTING | I1712 |
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- PLASMA NEW WELDING CURRENT PULSATION METHODS. ARC PLASMA DATE ANNOUNCED 11 29 68 11888
- PLASMAS BIBLIOGRAPHY ON THE HIGH TEMPERATURE CHEMISTRY AND PHYSICS OF GASES AND PLASMAS DATE ANNOUNCED 08 16 68 11767
- PLASTIC PRELIMINARY INVESTIGATION OF PLASTIC ENCAPSULATED TRANSISTORS. EPOXY DATE ANNOUNCED 03 15 68 11593
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| PLASTICS | SURVEY OF PLASTICS SANDWICH CONSTRUCTION. ADHESIVES, SEALANTS, FASTENERS. | I1765 DATE ANNOUNCED 08 23 68 |
| PLASTICS | PLASTICS ULATION, DIELECTRICS, POLYMER ELECTRICAL PROPERTIES. | I1776 DATE ANNOUNCED 08 23 68 |
| PLASTICS | THE COATING OF ALUMINUM WITH PLASTICS BY THE FLUIDIZED-BED AND ELECTROSTATIC POWDER TECHNIQUES. | I1662 DATE ANNOUNCED 05 17 68 |
| PLASTICS | BIBLIOGRAPHY ON APPLICATIONS OF PLASTICS. POLYMERS, RESINS | I1765 DATE ANNOUNCED 08 16 68 |
| PLASTICS | THE DEVELOPMENT OF NEW STRUCTURAL MATERIALS. CERAMICS, FIBERS, MATRIX, PLASTICS. | I1828 DATE ANNOUNCED 10 04 68 |
| PLASTICS | WATER-EXTENDED POLYESTER RESIN (WEP) FOR LIMITED WAR SHELTER CONSTRUCTION. PLASTICS | I1831 DATE ANNOUNCED 10 11 68 |
| PLATINUM | CRYOGENIC TEMPERATURE MEASUREMENT USING PLATINUM RESISTANCE THERMOMETERS. | I1636 DATE ANNOUNCED 04 19 68 |
| PLOTTING | CALCOMP PLOTTING OF X-RAY POLE FIGURES | I1736 DATE ANNOUNCED 07 19 68 |
| PNEUMATIC | DEVELOPMENT OF AN AUTOMATIC PROCESS START-UP DEMONSTRATOR. CONTROL, PNEUMATIC | I1551 DATE ANNOUNCED 02 09 68 |

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| PNEUMATIC | A BREADBOARD FLUORIC-CONTROLLED PNEUMATIC STEPPING-MOTOR SYSTEM. FLUIDICS, FLUID AMPLIFIER, CONTROL SYSTEMS | I1667 |
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| POINT | REVIEW OF IGNITION AND FLAMMABILITY PROPERTIES OF LUBRICANTS. FLASH POINT | I1715 |
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| POLARIZER | PULSE POLARIZER STUDIES OF CORROSION PREVENTIVE OILS, FILM, LUBRICANT | I1345 |
| DATE ANNOUNCED | 10 25 68 | |
| POLAROID | A METHOD FOR PHOTOGRAPHING MICROWAVE WITH A POLAROID FILM | I1757 |
| DATE ANNOUNCED | 18 09 68 | |
| POLE | CALCOMP PLOTTING OF X-RAY POLE FIGURES | I1736 |
| DATE ANNOUNCED | 07 19 68 | |
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| POLISHING | MOUNTING MATERIALS AND ALUMINA FOR EDGE RETENTION IN PREPARING METALLOGRAPHIC SPECIMENS. METALLOGRAPHY, POLISHING | I1342 |
| DATE ANNOUNCED | 10 10 68 | |
| POLLUTION | QUANTITATIVE MEASURE OF PHOTOCHEMICALLY REACTIVE AROMATIC HYDROCARBONS IN ENAMELS AND THINNERS. AIR POLLUTION, CHEMICAL ANALYSIS | I1691 |
| DATE ANNOUNCED | 16 07 68 | |
| POLLUTION | LABORATORY CONTAMINANT SENSOR. INSTRUMENT, ANALYTICAL CHEMISTRY, AIR POLLUTION | I1764 |
| DATE ANNOUNCED | 08 09 68 | |
| POLLUTION | MICROSCOPIC PARTICLE SEPARATION AND APPLICATIONS. AIR POLLUTION, SAMPLING | I1714 |
| DATE ANNOUNCED | 16 21 68 | |
| POLLUTION | THE THIRD NATIONAL CONFERENCE ON AIR POLLUTION SITE SELECTION | I1534 |
| DATE ANNOUNCED | 01 26 68 | |

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| POLYAMIDE | TRIPTYCENE POLYMERS. FILMS, POLYURETHANE, POLYAMIDE, POLYESTER, POLYANHYDRIDE, POLYOXADIAZOLE DATE ANNOUNCED 11 15 68 | I1876 |
| POLYANHYDRIDE | TRIPTYCENE POLYMERS. FILMS, POLYURETHANE, POLYAMIDE, POLYESTER, POLYANHYDRIDE, POLYOXADIAZOLE DATE ANNOUNCED 11 15 68 | I1876 |
| POLYAROMATICs | NEW POLYMERS TO PROTECT SPACE VEHICLES. TEFLON, KEL-F, POLYAROMATICs DATE ANNOUNCED 10 25 68 | I1850 |
| POLYCRYSTALLINE | EFFECT OF SIZE ON TENSILE STRENGTH OF FIRE POLYCRYSTALLINE WIRES. COLD-DRAWING DATE ANNOUNCED 11 22 68 | I1879 |
| POLYESTER | TRIPTYCENE POLYMERS. FILMS, POLYURETHANE, POLYAMIDE, POLYESTER, POLYANHYDRIDE, POLYOXADIAZOLE DATE ANNOUNCED 11 15 68 | I1876 |
| POLYESTER | WATER-EXTENDED POLYESTER RESIN (WEP) I1831 FOR LIMITED WAR SHELTER CONSTRUCTION. PLASTICS DATE ANNOUNCED 10 11 68 | |
| POLYETHYLENE | EFFECTS OF SURFACE TREATMENTS ON BONDING TO POLYETHYLENE WITH VARIOUS TYPE ADHESIVES. JOINT DATE ANNOUNCED 01 05 68 | I1516 |
| POLYETHYLENE | TIME-DEPENDENCE OF CRYSTAL ORIENTATION IN CRYSTALLINE POLYMERS. POLYETHYLENE, X-RAY DIFFRACTION, LIGHT SCATTERING DATE ANNOUNCED 09 26 68 | I1837 |
| POLYMER | TENSILE PROPERTIES OF PLASTICIZED PVC I1552 AS A FUNCTION OF PROCESSING. POLYMER DATE ANNOUNCED 02 09 68 | |

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| POLYMERS | PLASTICS | 11775 |
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| | DATE ANNOUNCED 08 23 68 | |
| POLYMERS | THE RELATIONSHIP BETWEEN MOLECULAR STRUCTURES, MORPHOLOGY, AND THE MECHANICAL PROPERTIES OF POLYMERIC MATERIALS. POLYMERS, POLYSTYRENE, VISCOELASTIC | 11854 |
| | DATE ANNOUNCED 11 01 68 | |
| POLYMERS | PRINCIPAL REPRESENTATIVES OF CARBORANES-LOXANE POLYMERS AND THEIR PROPERTIES. HIGH TEMPERATURE POLYMERS. | 11795 |
| | DATE ANNOUNCED 06 21 68 | |
| POLYMERS | PRINCIPAL REPRESENTATIVES OF CARBORANES-LOXANE POLYMERS AND THEIR PROPERTIES. HIGH TEMPERATURE POLYMERS. | 11795 |
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| POLYMERS | BIBLIOGRAPHY ON APPLICATIONS OF PLASTICS. POLYMERS, RESINS | 11765 |
| | DATE ANNOUNCED 08 23 68 | |
| POLYMERS | RADIATION EFFECTS ON POLYMERS. NUCLEAR RADIATION | 11728 |
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| POLYMERS | BIBLIOGRAPHY ON APPLICATIONS OF PLASTICS. POLYMERS, RESINS | 11765 |
| | DATE ANNOUNCED 08 16 68 | |
| POLYMERS | ELECTRICAL PROPERTIES OF POLYMERS. DIELECTRIC, RESISTIVITY, DISSIPATION FACTOR | 11749 |
| | DATE ANNOUNCED 08 02 68 | |
| POLYMERS | THE RELATIONSHIP BETWEEN MOLECULAR STRUCTURES, MORPHOLOGY, AND THE MECHANICAL PROPERTIES OF POLYMERIC MATERIALS. POLYMERS, POLYSTYRENE, VISCOELASTIC | 11854 |
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| POLYMERS | TRIPTYCENE POLYMERS. FILMS, POLYURETHANE, POLYAMIDE, POLYESTER, POLYANHYDRIDE, POLYOXADIAZOLE DATE ANNOUNCED 11 15 68 | I1876 |
| POLYMERS | TIME-DEPENDENCE OF CRYSTAL ORIENTATION IN CRYSTALLINE POLYMERS. POLYETHYLENE, X-RAY DIFFRACTION, LIGHT SCATTERING DATE ANNOUNCED 10 29 68 | I1897 |
| POLYMERS | DEVELOPMENT OF SILOXANE-CONTAINING EPOXY POLYMERS FOR ELECTRICAL CIRCUIT EMBEDMENT APPLICATIONS. DIELECTRIC CONSTANT DATE ANNOUNCED 11 01 68 | I1858 |
| POLYMERS | NEW POLYMERS TO PROTECT SPACE VEHICLES. TFEFLON, KEL-F, POLYAROMATIC DATE ANNOUNCED 10 25 68 | I1850 |
| POLYMERS | AN ANALYTICAL GAS CHROMATOGRAPH FOR PRODUCTS OF ISOTHERMALLY DEGRADED POLYMERS. PYROLYSIS, GAS CHROMATOGRAPHY DATE ANNOUNCED 11 15 68 | I1874 |
| POLYOXADIAZOLE | TRIPTYCENE POLYMERS. FILMS, POLYURETHANE, POLYAMIDE, POLYESTER, POLYANHYDRIDE, POLYOXADIAZOLE DATE ANNOUNCED 11 15 68 | I1876 |
| POLYSTYRENE | THE RELATIONSHIP BETWEEN MOLECULAR STRUCTURES, MORPHOLOGY, AND THE MECHANICAL PROPERTIES OF POLYMERIC MATERIALS. POLYMERS, POLYSTYRENE, VISCOELASTIC DATE ANNOUNCED 11 01 68 | I1854 |
| POLYTETRAFLUOROE | FREE RADICAL YIELDS IN POLYTETRAFLUOROETHYLENE AS THE BASIS FOR RADIATION DOSIMETER DATE ANNOUNCED 07 12 68 | I1731 |

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| POLYURETHANE | QUICK-CURING FOAM SYSTEMS. POLYURETHANE, EPOXY, SILICONE, INSULATION | I1927 DATE ANNOUNCED 12 27 68 |
| POLYURETHANE | TRIPTYCENE POLYMERS. FILMS, POLYURETHANE, POLYAMIDE, POLYESTER, POLYANHYDRIDE, POLYJXADIAZOLE | I1876 DATE ANNOUNCED 11 15 68 |
| POSITIVE | DEVELOPMENT OF A POSITIVE STOP-LOCKING DEVICE FOR INCORPORATION IN FLARELESS FITTINGS. JOINT, UNION | I1525 DATE ANNOUNCED 01 19 68 |
| POTASSIUM | TECHNIQUE FOR RECOVERY OF ALKALI-METAL REACTION PRODUCTS. POTASSIUM | I1548 DATE ANNOUNCED 12 02 68 |
| POTENTIAL | THE EFFECT OF SULFONATES ON THE PERMEABILITY OF OIL FILMS. SURFACE POTENTIAL | I1880 DATE ANNOUNCED 11 22 68 |
| POTENTIALS | SURFACE POTENTIALS OF ADSORBED ORGANIC MONOLAYERS ON METALS. OIL, CHROME, STEEL | I1539 DATE ANNOUNCED 01 26 68 |
| POTTING | FLAMMABILITY OF EPOXY RESINS. POTTING COMPOUNDS | I1739 DATE ANNOUNCED 07 19 68 |
| POWDER | COMPLEX CEMENTED CARBIDES FOR METAL CUTTING TOOLS* POWDER | I1511 DATE ANNOUNCED 01 05 68 |
| POWDER | TRACE ANALYSIS OF SOLIDS BY MASS SPECTROMETRY. POWDER | I1513 DATE ANNOUNCED 01 05 68 |
| POWDER | SHAPING OF PRECIPITATION-HARDENING STAINLESS STEELS BY CASTING AND POWDER METALLURGY | I1678 DATE ANNOUNCED 05 31 68 |

- POUNDER THE COATING OF ALUMINUM WITH PLASTICS I1662
BY THE FLUIDIZED-BED AND
ELECTROSTATIC POWDER TECHNIQUES.
DATE ANNOUNCED 05 17 68
- POUNDER THE PREPARATION OF CARBON FIBRE-METAL I1668
COMPOSITES AND THEIR FRICTION AND
WEAR PROPERTIES. PONDER METALLURGY
DATE ANNOUNCED 05 17 68
- POUNDER NEW PLASMA SPRAYING AND ITS I1898
APPLICATION. COATINGS, POWDER
SPRAYING
DATE ANNOUNCED 12 06 68
- PRACTICAL PRACTICAL RELIABILITY I1781
DATE ANNOUNCED 08 30 68
- PRACTICAL PRACTICAL RELIABILITY--VOLUME II, I1832
COMPUTATION. COMPUTER
DATE ANNOUNCED 09 13 68
- PRACTICAL PRACTICAL FUNDAMENTALS OF PROTECTIVE I1892
ATMOSPHERE BRAZING OF NICKEL
ALLEYS.
DATE ANNOUNCED 11 29 68
- PRACTICAL PRACTICAL RELIABILITY--VOLUME I1877
IV--PREDICTION. RELIABILITY
MODELS
DATE ANNOUNCED 11 22 68
- PRACTICAL PRACTICAL RELIABILITY - VOLUME III - I1837
TESTING
DATE ANNOUNCED 10 18 68
- PRACTICAL PRACTICAL RELIABILITY--VOLUME I1894
V--PARTS. PARTS
DATE ANNOUNCED 12 06 68
- PRECIPITATION THERMAL AND MECHANICAL TREATMENT FOR I1652
PRECIPITATION- HARDENING
STAINLESS STEELS. FABRICATION
DATE ANNOUNCED 05 03 68

PRECIPITATION A STUDY OF SENSITIZATION IN TYPES 301 I1801
AND 316 STAINLESS STEELS USING
MOSSBAUER SPECTROSCOPY. CARBIDE,
PRECIPITATION, INTERGRANULAR
CORROSION.
DATE ANNOUNCED 09 13 68

PRECIPITATION-HA WELDING OF PRECIPITATION-HARDENING I1648
STAINLESS STEELS. JOINING,
METALS
DATE ANNOUNCED 05 03 68

PRECIPITATION-HA SHAPING OF PRECIPITATION-HARDENING I1678
STAINLESS STEELS BY CASTING AND
POWDER METALLURGY
DATE ANNOUNCED 05 31 68

PRECIPITATION-HA DEFORMATION PROCESSING OF I1685
PRECIPITATION-HARDENING STAINLESS
STEELS. MECHANICAL PROPERTIES,
METALLIC MATERIALS, HIGH STRENGTH
ALLOYS
DATE ANNOUNCED 06 07 68

PRECIPITATION-HA ADHESIVE BONDING OF STAINLESS STEELS I1676
- INCLUDING
PRECIPITATION-HARDENING STAINLESS
STEELS.
DATE ANNOUNCED 05 24 68

PRECISE PRECISE DETERMINATION OF OXYGEN IN I1529
REFRACTORY OXIDES BY INERT GAS
FUSION-GAS CHROMATOGRAPHY. ANALYSIS
DATE ANNOUNCED 01 19 68

PRECISION A PRECISION PORTABLE OSCILLATOR. I1657
CRYSTAL OVENS, TRANSISTOR
DATE ANNOUNCED 05 10 68

PRECISION THE 'SQUARE LOOP' FLUX STANDARD A I1772
PRECISION PULSE GENERATOR.
MAGNETIC FIELD
DATE ANNOUNCED 08 16 68

PRECISION A HIGH PRECISION LOGARITHMIC I1875
AMPLIFIER USING SAMPLING
TECHNIQUES. RC NETWORK, CASCADING,
VOLTAGE DECAY
DATE ANNOUNCED 11 15 68

- PREDICTING CORRELATIONS FOR PREDICTING LEAKAGE I1573
THROUGH CLOSED VALVES. FLUIDS
DATE ANNOUNCED 03 21 68
- PREDICTION PREDICTION OF THE ELASTIC MODULI OF I1640
COMPOSITES. STRUCTURAL MATERIALS
DATE ANNOUNCED 04 26 68
- PREDICTION DELAYED FAILURE AND ITS PREDICTION. I1907
HYDROGEN EMERGENCE, CRACKING,
ELECTROPLATING, BAKING
DATE ANNOUNCED 12 13 68
- PREDICTIONS PREDICTIONS FOR FUTURE OF CRYOGENIC I1623
APPLICATIONS.
CONDUCTANCE, FOOD
DATE ANNOUNCED 04 12 68
- PRELIMINARY PRELIMINARY INVESTIGATIONS INTO THE I1678
USE OF GLASS BEADS IN FIBERGLASS
REINFORCED PLASTICS. COMPOSITE
DATE ANNOUNCED 03 29 68
- PRELIMINARY PRELIMINARY INVESTIGATION OF PLASTIC I1593
ENCAPSULATED TRANSISTORS.
EPOXY
DATE ANNOUNCED 03 15 68
- PRELIMINARY A PRELIMINARY STUDY OF THE I1597
CO-EXTRUSION OF DISSIMILAR
METALS. FABRICATION, EXTRUSION
DATE ANNOUNCED 03 22 68
- PRELIMINARY PRELIMINARY EVALUATION OF GREASES TO I1746
316 C AND SOLID LUBRICANTS TO
816 C IN BALL BEARINGS
DATE ANNOUNCED 07 26 68
- PREPARATION THE PREPARATION OF CARBON FIBRE-METAL I1668
COMPOSITES AND THEIR FRICITION AND
WEAR PROPERTIES. POWDER METALLURGY
DATE ANNOUNCED 05 17 68
- PREPARATION SELECTING SURFACE PREPARATION I1822
PROCESSES FOR ADHESIVE
BINDING, SEALING, AND COATING
DATE ANNOUNCED 10 34 68

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| PREPARING | Mounting materials and alumina for edge retention in metallurgical specimens. Metallurgy, Polishing | I1842 Preparing Metallurgical Specimens. Date announced 10-18-68 |
| PROPERTIES | Properties of new high temperature titanium alloys. Creep, tensile strength, heat treatment, mechanical properties | I1719 Properties High Temperature Titanium Alloys. Creep, Tensile Strength, Heat Treatment, Mechanical Properties. Date announced 07-05-68 |
| PRESS | Forge conversion deemed breakthrough. Press, metal forming | I1533 Forge Conversion Deemed Breakthrough. Press, Metal Forming Date announced 11-26-68 |
| PRESSURE | Life cycling test on several strain gage pressure transducers. Life testing | I1586 Life Cycling Test On Several Strain Gage Pressure Transducers. Life Testing Date announced 03-08-68 |
| PRESSURE | Selected fluid and vacuum technology. Pressure | I1559 Selected Fluid and Vacuum Technology. Pressure Date announced 02-16-68 |
| PRESSURE | EFFECTS OF PRESSURE AND VIBRATION RATES UPON FRETTING WEAR, CORROSION, FRICTION DAMAGE. | I1836 Effects of Pressure and Vibration Rates Upon Fretting Wear, Corrosion, Friction Damage. Date announced 10-11-68 |
| PRESSURE | A constant pressure gas absorption reactor. Dissolved gases | I1922 A Constant Pressure Gas Absorption Reactor. Dissolved Gases Date announced 12-27-68 |
| PRESSURE | Study of new methods to measure low pressure. Manometer, vacuum | I1825 Study of New Methods to Measure Low Pressure. Manometer, Vacuum Date announced 10-04-68 |
| PRESSURE | A small combination sensing probe for measurement of temperature, pressure, and flow direction. None | I1868 A Small Combination Sensing Probe for Measurement of Temperature, Pressure, and Flow Direction. None Date announced 11-08-68 |
| PRESSURE | A versatile pressure recording system. Transducer, recording | I1839 A Versatile Pressure Recording System. Transducer, Recording Date announced 09-29-68 |

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| PRESTRAIN | THE EFFECT OF TORSIONAL PRESTRAIN ON I1625 THE EMBRITTLEMENT OF MILD STEEL METALS | |
| | DATE ANNOUNCED 04 12 68 | |
| PRETREATMENTS | EFFECT OF HEAT ON CHROMATE CONVERSION I1653 COATINGS USED AS PAINT PRETREATMENTS. CORROSION | |
| | DATE ANNOUNCED 05 10 68 | |
| PREVENTION | PREVENTION OF STRESS-CORROSION I1517 FAILURE IN IRON-NICKEL-COBALT ALLOY SEMICONDUCTOR DEVICE LEADS. ELECTRONICS, CIRCUIT | |
| | DATE ANNOUNCED 01 12 68 | |
| PREVENTIVE | PULSE POLARIZER STUDIES OF CORROSION I1345 PREVENTIVE OILS, FILM, LUBRICANT | |
| | DATE ANNOUNCED 10 25 68 | |
| PRIMARY | PRIMARY AND SECONDARY GALVANIC CELLS--HISTORY AND STATE-OF-THE-ART SUMMARY. ELECTROCHEMICAL, BATTERIES, EMF | I1364 |
| | DATE ANNOUNCED 11 08 68 | |
| PRINCIPAL | PRINCIPAL REPRESENTATIVES OF CARBORANES-SILOXANE POLYMERS AND THEIR PROPERTIES. HIGH TEMPERATURE POLYMERS | I1705 |
| | DATE ANNOUNCED 06 21 68 | |
| PRINCIPLES | SOME PRINCIPLES OF ACTIVATION ANALYSIS. INSTRUMENTATION, ANALYTICAL CHEMISTRY | I1694 |
| | DATE ANNOUNCED 06 14 68 | |
| PRINTED | OPTIMIZATION STUDY OF CIRCUIT CARD DESIGN. PRINTED CIRCUIT, COMPUTER | I1748 |
| | DATE ANNOUNCED 07 26 68 | |
| PROBABILISTIC | DECIDE A COMPUTER SOLUTION OF PROBABILISTIC NETWORKS TO AID DECISION MAKING INVOLVING UNCERTAINTY. PLANNING | I1756 |
| | DATE ANNOUNCED 08 02 68 | |

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| PROBABILITY | A TECHNIQUE FOR PROBABILITY ASSIGNMENT IN DECISION ANALYSIS DATE ANNOUNCED 08 16 68 | I1769 |
| PROBABLE | DETERMINATION OF SAMPLE SIZE FOR MINIMIZING PROBABLE COSTS IN DESTRUCTIVE TESTING. QUALITY CONTROL, INSPECTION DATE ANNOUNCED 03 08 68 | I1581 |
| PROBE | THE USE OF THE ELECTRON PROBE MICROANALYZER IN MATERIALS RESEARCH AND DEVELOPMENT. ANALYTICAL TECHNIQUES, INSTRUMENTATION DATE ANNOUNCED 07 05 68 | I1721 |
| PROBE | A SMALL COMBINATION SENSING PROBE FOR MEASUREMENT OF TEMPERATURE, PRESSURE, AND FLOW DIRECTION. NONE DATE ANNOUNCED 11 08 68 | I1868 |
| PROBLEM | ELASTIC-PLASTIC TORSION PROBLEM FOR STRAIN-HARDENING MATERIALS. STRUCTURAL ANALYSIS DATE ANNOUNCED 03 15 68 | I1595 |
| PROBLEMS | PROBLEMS IN SURFACE CHEMISTRY AND THE MOLECULAR THEORY OF ADSORPTION. PHYSICAL CHEMISTRY DATE ANNOUNCED 08 23 68 | I1780 |
| PROCEDURALIZED | DEVELOPMENT OF FULLY PROCEDURALIZED TROUBLE-SHOOTING ROUTINES. MAINTENANCE, ANALYSIS DATE ANNOUNCED 04 19 68 | I1629 |
| PRODUCTION | FIRST-COME-FIRST-SERVE SCHEDULING IS OFTEN OPTIMAL. PART I- SYMMETRY-CONVECTIVITY. PRODUCTION DATE ANNOUNCED 02 09 68 | I1554 |
| PRODUCTION | LEARNING CURVE METHODOLOGY FOR COST ANALYSTS. PRODUCTION DATE ANNOUNCED 02 16 68 | I1561 |

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| PRODUCTS | TECHNIQUE FOR RECOVERY OF ALKALI-METAL REACTION PRODUCTS. KRYPTON | I1548 |
| DATE ANNOUNCED | 02 02 68 | |
| PRODUCTS | IDENTIFICATION AND CHARACTERIZATION OF ELECTROCHEMICAL REACTION PRODUCTS BY X-RAY DIFFRACTION. CORROSION, ANALYTICAL CHEMISTRY | I1683 |
| DATE ANNOUNCED | 05 31 68 | |
| PRODUCTS | AN ANALYTICAL GAS CHROMATOGRAPH FOR PRODUCTS OF ISOTHERMALLY DEGRADED POLYMERS. PYROLYSIS, GAS CHROMATOGRAPHY | I1874 |
| DATE ANNOUNCED | 05 31 68 | |
| PROFITABILITY | CALCULATE THE PROFITABILITY INDEX. PROJECT EVALUATION, FINANCIAL | I1917 |
| DATE ANNOUNCED | 12 27 68 | |
| PROGRAM | A GENERAL FORTRAN PROGRAM FOR LEAST-SQUARES ANALYSIS OF VARIANCE | I1786 |
| DATE ANNOUNCED | 08 30 68 | |
| PROGRAM | LONG-RANGE PLANNING THROUGH PROGRAM BUDGETING, MANAGEMENT | I1774 |
| DATE ANNOUNCED | 08 23 68 | |
| PROGRAM | A REPORT ON COMPUTER-AIDED CIRCUIT ANALYSIS + DESIGN. COMPUTER PROGRAM | I1669 |
| DATE ANNOUNCED | 05 24 68 | |
| PROGRAM | WIPEX, A FORTRAN COMPUTER PROGRAM FOR PRODUCING WIRE LISTS | I1744 |
| DATE ANNOUNCED | 07 26 68 | |
| PROGRAM | COMPUTE--A TIME-SHARING DESK CALCULATOR PROGRAM. FORTRAN IV | I1869 |
| DATE ANNOUNCED | 11 15 68 | |
| PROGRAMMING | FORTRAN PROGRAMMING. COMPUTER, LANGUAGE | I1805 |
| DATE ANNOUNCED | 09 20 68 | |

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| PROGRAMMING | A SERVOCONTROLLER FOR PROGRAMMING SAMPLE VAPORIZATION IN DIRECT CURRENT ARC SPECTROCHEMICAL ANALYSIS. ANALYTICAL CHEMISTRY DATE ANNOUNCED 19 13 68 | I1833 |
| PROGRAMS | MATHEMATICAL COMPUTER PROGRAMS DATE ANNOUNCED 07 05 68 | I1723 |
| PROJECT | CALCULATE THE PROFITABILITY INDEX. PROJECT EVALUATION, FINANCIAL DATE ANNOUNCED 12 27 68 | I1917 |
| PROJECTOR | STUDY AND DEVELOPMENT OF TELEVISION PROJECTOR VIDEO AMPLIFIER TECHNIQUES. DATE ANNOUNCED 02 16 68 | I1563 |
| PROPAGATION | A METHOD OF MEASURING CRACK PROPAGATION RATES IN BRITTLE MATERIALS. STRESS CORROSION DATE ANNOUNCED 02 02 68 | I1543 |
| PROPERTIES | EVALUATION OF FATIGUE PROPERTIES OF COPPER-NICKEL, SILVER-BRAZED, AND SOCKET-WELDED JOINTS. PIPING DATE ANNOUNCED 01 26 68 | I1535 |
| PROPERTIES | TENSILE PROPERTIES OF PLASTICIZED PVC AS A FUNCTION OF POLYMER PROCESSING. DATE ANNOUNCED 02 09 68 | I1552 |
| PROPERTIES | THEORY AND DESIGN CONSIDERATIONS IN DEVELOPING A MULTI-PURPOSE INSTRUMENT FOR DETERMINATION OF TWELVE PROPERTIES. FLUIDS, ANALYSIS DATE ANNOUNCED 02 09 68 | I1549 |
| PROPERTIES | EFFECT OF MECHANICAL PROPERTIES OF ADHEREND ON ADHESIVE BOND STRENGTHS. JOINING, BONDING DATE ANNOUNCED 02 16 68 | I1558 |
| PROPERTIES | STUDY OF MICROMECHANICAL PROPERTIES OF ADHESIVE BONDED JOINTS. EPON DATE ANNOUNCED 04 19 68 | I1635 |

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| PROPERTIES | RESEARCH TO DETERMINE THE LONG TERM MECHANICAL PROPERTIES OF METALS SUBJECTED TO MECHANICAL STRESS AT ELEVATED TEMPERATURES AND NEUTRON IRRADIATION. DATE ANNOUNCED 03 22 68 | I1691 |
| PROPERTIES | PRINCIPAL REPRESENTATIVES OF CARBORANESILOXANE POLYMERS AND THEIR PROPERTIES. HIGH TEMPERATURE POLYMERS DATE ANNOUNCED 06 21 68 | I1705 |
| PROPERTIES | PLASTICS ADHESION, ULATION, DIELECTRICS, POLYMER ELECTRICAL PROPERTIES, DATE ANNOUNCED 03 23 68 | I1776 |
| PROPERTIES | INVESTIGATION OF CRYSTAL IMPERFECTIONS BY MEANS OF LASER LIGHT SCATTERING. PHYSICAL PROPERTIES, SINGLE CRYSTAL DATE ANNOUNCED 06 07 68 | I1689 |
| PROPERTIES | REVIEW OF IGNITION AND FLAMMABILITY PROPERTIES OF LUBRICANTS. FLASH POINT DATE ANNOUNCED 06 28 68 | I1715 |
| PROPERTIES | THE -S/N- FATIGUE LIFE GAGE. STRAIN GAGE, STRUCTURAL TESTING, MECHANICAL PROPERTIES, INSTRUMENTATION DATE ANNOUNCED 06 07 68 | I1692 |
| PROPERTIES | PROPERTIES OF NEW HIGH TEMPERATURE TITANIUM ALLOYS. CREEP, TENSILE STRENGTH, HEAT TREATMENT, MECHANICAL PROPERTIES DATE ANNOUNCED 07 05 68 | I1719 |
| PROPERTIES | THE PREPARATION OF CARBON FIBRE-METAL COMPOSITES AND THEIR FRICTION AND WEAR PROPERTIES. POWDER METALLURGY DATE ANNOUNCED 05 17 68 | I1658 |

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| PROPERTIES | DEFORMATION PROCESSING OF PRECIPITATION-HARDENING STAINLESS STEELS. MECHANICAL PROPERTIES, METALLIC MATERIALS, HIGH STRENGTH ALLOYS | I1685 DATE ANNOUNCED 06 27 68 |
| PROPERTIES | ELECTRICAL PROPERTIES OF POLYMERS. DIELECTRIC, RESISTIVITY, DISSIPATION FACTOR | I1749 DATE ANNOUNCED 08 02 68 |
| PROPERTIES | CERTAIN PHYSICAL PROPERTIES AND APPLICATIONS OF NITINOL. ALLOY, THERMOECHANICAL PROPERTIES | I1931 DATE ANNOUNCED 12 13 68 |
| PROPERTIES | PROPERTIES OF SIMPLE LIQUIDS. ARGON, KINETICS, THERMODYNAMICS | I1847 DATE ANNOUNCED 10 25 68 |
| PROPERTIES | EFFECTS OF LOW TEMPERATURE ON THE MECHANICAL PROPERTIES OF STRUCTURAL METALS. CRYOGENICS, NOTCH STRENGTH, SUPERCONDUCTIVITY, LIQUEFACATION | I1839 DATE ANNOUNCED 10 18 68 |
| PROPERTIES | CERTAIN PHYSICAL PROPERTIES AND APPLICATIONS OF NITINOL. ALLOY, THERMOECHANICAL PROPERTIES | I1931 DATE ANNOUNCED 12 13 68 |
| PROPERTIES | PROPERTIES AND APPLICATIONS OF DISPERSION-STRENGTHENED METALS. METALLURGY, ALLOY, MATRIX | I1798 DATE ANNOUNCED 09 13 68 |
| PROPERTIES | THE RELATIONSHIP BETWEEN MOLECULAR STRUCTURES, MORPHOLOGY, AND THE MECHANICAL PROPERTIES OF POLYMERIC MATERIALS. POLYMERS, POLYSTYRENE, VISCOELASTIC | I1854 DATE ANNOUNCED 11 01 68 |

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| PROPERTIES | PHYSICAL AND RHEOLOGICAL PROPERTIES OF FLUORONITROSO RUBBERS. SOLVENT RESISTANT, LOW TEMPERATURE, ELASTOMER. | I1918 |
| | DATE ANNOUNCED 12 27 68 | |
| PROSPECTING | APPLICATION OF BIOGEOCHEMISTRY TO MINERAL PROSPECTING. | I1878 |
| | DATE ANNOUNCED 11 22 68 | |
| PROTECT | NEW POLYMERS TO PROTECT SPACE VEHICLES. TEFILON, KEL-F, POLYAROMATIC. | I1850 |
| | DATE ANNOUNCED 10 25 68 | |
| PROTECTION | BASIC STANDARDS FOR RADIATION PROTECTION. | I1590 |
| | DATE ANNOUNCED 03 15 68 | |
| PROTECTION | SPECIAL SAFETY STUDY. TESTING 'NUMEX' MATERIAL AS HEAT RESISTANT CLOTHING FOR INDUSTRIAL APPLICATION. THERMAL PROTECTION. | I1633 |
| | DATE ANNOUNCED 04 19 68 | |
| PROTECTION | TESTING 'NOMEX' MATERIAL AS HEAT RESISTANT CLOTHING FOR INDUSTRIAL APPLICATION. SAFETY, FIRE PROTECTION. | I1696 |
| | DATE ANNOUNCED 06 14 68 | |
| PROTECTION | CORROSION PROTECTION VIA FLAME SPRAYING, METALLIZING, COATING, METALLIC COATING, CERAMIC | I1750 |
| | DATE ANNOUNCED 08 02 68 | |
| PROTECTIVE | DEVELOPMENT OF HIGH-INTENSITY THERMAL INSULATE FABRIC. | I1527 |
| | DATE ANNOUNCED 01 19 68 | |
| PROTECTIVE | PRACTICAL FUNDAMENTALS OF PROTECTIVE ATMOSPHERE BRAZING OF NICKEL ALLOYS. | I1890 |
| | DATE ANNOUNCED 11 29 68 | |

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| PRYOLYSIS | AN ANALYTICAL GAS CHROMATOGRAPH FOR PRODUCTS OF ISOTHERMALLY DEGRADED POLYMERS. PRYOLYSIS, GAS CHROMATOGRAPHY | I1874 |
| PULSATION | NEW WELDING CURRENT PULSATION METHODS. ARC PLASMA | I1886 |
| | DATE ANNOUNCED 11 15 68 | |
| PULSE | EVALUATION OF MAGNETIC PULSE FORMING AS A JOINT FABRICATION TECHNIQUE FOR CP-5 FUEL ELEMENTS. ALUMINUM | I1610 |
| | DATE ANNOUNCED 03 29 68 | |
| PULSE | DIE CAST AND MECHANICAL THERMAL PULSE TERMINATION WIRING, ELECTRICAL | I1526 |
| | DATE ANNOUNCED 01 19 68 | |
| PULSE | THE 'SQUARE LOOP' FLUX STANDARD & PRECISION PULSE GENERATOR. MAGNETIC FIELD | I1772 |
| | DATE ANNOUNCED 08 16 68 | |
| PULSE | PULSE DURATION MODULATION MULTIPLEXER | I1808 |
| | DATE ANNOUNCED 09 27 68 | |
| PULSE | PULSE POLARIZER STUDIES OF CORROSION PREVENTIVE OILS. FILM, LUBRICANT | I1845 |
| | DATE ANNOUNCED 10 25 68 | |
| PUMPING | PANEL LOSS FACTORS DUE TO GAS PUMPING AT STRUCTURAL JOINTS. RIVETED JOINT, DAMPING | I1580 |
| | DATE ANNOUNCED 03 01 68 | |
| PUNCHED | A TECHNIQUE FOR CONVERTING A KEYPUNCH INTO A COMPUTER PUNCHED CARD READER. COMPUTER HARDWARE | I1766 |
| | DATE ANNOUNCED 08 16 68 | |
| PURIFICATION | CONSTRUCTION AND OPERATION OF A SODIUM PURIFICATION APPARATUS. GETTERING, DISTILLATION | I1540 |
| | DATE ANNOUNCED 01 26 68 | |

PVC

TENSILE PROPERTIES OF PLASTICIZED PVC 11552
AS A FUNCTION OF PROCESSING.
POLYMER
DATE ANNOUNCED 12 19 68

QUALITY

DETERMINATION OF SAMPLE SIZE FOR 11581
MINIMIZING PROBABLE COSTS IN
DESTRUCTIVE TESTING. QUALITY CONTROL,
INSPECTION
DATE ANNOUNCED 03 08 68

QUALITY

AUTOMATIC CENTERING INSPECTION 11635
MACHINE. MACHINING, QUALITY
CONTROL
DATE ANNOUNCED 03 29 68

QUALITY

A SUMMARY OF TERMINOLOGY AND CRITERIA 11632
EMPLOYED IN IMAGE QUALITY
ASSESSMENT AND SPECIFICATION.
ELECTRO-OPTICAL, DISPLAYS
DATE ANNOUNCED 04 19 68

QUALITY

LIQUID CRYSTALS AS A NONDESTRUCTIVE 11518
INSPECTION TOOL, FEASIBILITY
STUDY. QUALITY CONTROL
DATE ANNOUNCED 01 12 68

QUANTITATIVE

QUANTITATIVE STUDY OF SOME ORGANIC 11664
COMPOUNDS BY X-RAY
DIFFRACTION.
DATE ANNOUNCED 05 17 68

QUANTITATIVE

QUANTITATIVE MEASURE OF 11691
PHOTOCHEMICALLY REACTIVE AROMATIC
HYDROCARBONS IN ENAMELS AND THINNERS.
AIR POLLUTION, CHEMICAL
ANALYSIS
DATE ANNOUNCED 06 07 68

QUANTUM

THE MEASUREMENT OF SMALL VOLTAGES 11609
USING A QUANTUM
INTERFERENCE DEVICE.
DATE ANNOUNCED 03 29 68

QUARTZ

TEMPERATURE PERFORMANCE MEASUREMENT 11695
METHODS FOR
TEMPERATURE-COMPENSATED QUARTZ
OSCILLATORS
DATE ANNOUNCED 06 14 68

- QUICK-CURING QUICK-CURING FOAM SYSTEMS.
POLYURETHANE, EPOXY, SILICONE,
INSULATION
DATE ANNOUNCED 12 27 68 I1925
- RADIATION BASIC STANDARDS FOR RADIATION
PROTECTION.
DATE ANNOUNCED 03 15 68 I1590
- RADIATION RADIATION EFFECTS ON POLYMERS.
NUCLEAR RADIATION
DATE ANNOUNCED 07 12 68 I1728
- RADIATION RADIATION EFFECTS ON POLYMERS.
NUCLEAR RADIATION
DATE ANNOUNCED 07 12 68 I1728
- RADIATION FREE RADICAL YIELDS IN
POLYTETRAFLUOROETHYLENE AS THE BASIS
FOR RADIATION DOSIMETER
DATE ANNOUNCED 07 12 68 I1731
- RADIATION THERMAL RADIATION HEAT TRANSFER -
VOLUME 1. BLACKBODY
RADIATION, EMISSIVITY, ABSORPTIVITY,
REFLECTIVITY,
ELECTROMAGNETIC
DATE ANNOUNCED 08 30 68 I1787
- RADIATION THERMAL RADIATION HEAT TRANSFER -
VOLUME 1. BLACKBODY
RADIATION, EMISSIVITY, ABSORPTIVITY,
REFLECTIVITY,
ELECTROMAGNETIC
DATE ANNOUNCED 08 30 68 I1787
- RADIATION A SURVEY OF THE THERMAL CONDUCTANCE
OF METALLIC CONTACTS. HEAT
TRANSFER, RADIATION
DATE ANNOUNCED 11 08 68 I1867
- RADICAL FREE RADICAL YIELDS IN
POLYTETRAFLUOROETHYLENE AS THE BASIS
FOR RADIATION DOSIMETER
DATE ANNOUNCED 07 12 68 I1731
- RADIENT THE DISC FLUXMETER DEVELOPED AT
ESTEC. RADIENT ENERGY
DATE ANNOUNCED 05 03 68 I1651

- RADIOCHEMICAL A RADIOCHEMICAL INVESTIGATION OF THE I1624
LEACHING OF CHROMIUM FROM
CHEMICALLY CHROMATED ALUMINUM ALLOY
SURFACES. FILMS
DATE ANNOUNCED 04 12 68
- RADIOPHASIC A REPORT GUIDE TO RADIOPHASIC I1713
TESTING LITERATURE, VOLUME
1. NONDESTRUCTIVE TESTING
DATE ANNOUNCED 06 28 68
- RADIOPHASIC A REPORT GUIDE TO RADIOPHASIC I1720
TESTING LITERATURE, VOLUME 2
NONDESTRUCTIVE TESTING
DATE ANNOUNCED 07 05 68
- RADIOPHASY TANGENTIAL RADIOPHASY FOR DIMENSION I1607
MEASUREMENTS. THICKNESS
DATE ANNOUNCED 03 29 68
- RAPID IMPROVED INSTRUMENTAL METHODS FOR I1538
RAPID ANALYSIS OF STAINLESS
AND MARAGING STEELS. METAL
DATE ANNOUNCED 01 26 68
- RAY SIMULTANEOUS 3-CHANNEL CATHODE RAY I1708
TUBE DISPLAY SYSTEM
OSCILLOSCOPE
DATE ANNOUNCED 06 21 68
- RAYOLIN-N APPLICATIONS. TEFLON, FEP, TFE, I1833
NOVATHENE, RAYOLIN-N
DATE ANNOUNCED 10 11 68
- RC A HIGH PRECISION LOGARITHMIC I1875
AMPLIFIER USING SAMPLING
TECHNIQUES. RC NETWORK, CASCADING,
VOLTAGE DECAY
DATE ANNOUNCED 11 15 68
- REACTION TECHNIQUE FOR RECOVERY OF I1548
ALKALI-METAL REACTION PRODUCTS.
POTASSIUM
DATE ANNOUNCED 02 02 68

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| REACTION | IDENTIFICATION AND CHARACTERIZATION OF ELECTROCHEMICAL REACTION PRODUCTS BY X-RAY DIFFRACTION. CORROSION, ANALYTICAL CHEMISTRY DATE ANNOUNCED 05 31 68 | I1683 |
| REACTIVE | QUANTITATIVE MEASURE OF PHOTOCHEMICALLY REACTIVE AROMATIC HYDROCARBONS IN ENAMELS AND THINNERS. AIR POLLUTION, CHEMICAL ANALYSIS DATE ANNOUNCED 06 07 68 | I1691 |
| REACTOR | A CONSTANT PRESSURE GAS ABSORPTION REACTOR. DISSOLVED GASES DATE ANNOUNCED 12 27 68 | I1922 |
| READER | A TECHNIQUE FOR CONVERTING A KEYPUNCH INTO A COMPUTER PUNCHED CARD READER. COMPUTER HARDWARE DATE ANNOUNCED 08 16 68 | I1766 |
| READINGS | COPARISON OF BEHIND-THE-LENS METER READINGS AND INCIDENT LIGHT METER READINGS IN PRODUCING 35MM COLOR SLIDES FOR TECHNICAL TRAINING CLASSES. PHOTOGRAPHY DATE ANNOUNCED 07 19 68 | I1735 |
| READINGS | COPARISON OF BEHIND-THE-LENS METER READINGS AND INCIDENT LIGHT METER READINGS IN PRODUCING 35MM COLOR SLIDES FOR TECHNICAL TRAINING CLASSES. PHOTOGRAPHY DATE ANNOUNCED 07 19 68 | I1735 |
| REAMING | MACHINING TITANIUM ALLOYS. MILLING, DRILLING, REAMING, TAPPING, AISI 4340 DATE ANNOUNCED 11 01 68 | I1853 |
| RECORDER | DESIGN, DEVELOPMENT, FABRICATION, AND TEST, IMPROVED MAGNETIC TAPE RECORDER. BLAKINGS, ELECTRON BEAM WELDING DATE ANNOUNCED 05 10 68 | I1654 |

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| RECORDER | LOW FREQUENCY SUB-AUDIO TRIPLEXER. OSCILLOGRAPH, RECORDER, INSTRUMENTATION DATE ANNOUNCED 05 31 68 | I1680 |
| RECORDER | AUTOMATIC STEPWISE SUPPRESSION OF THE I1794 ZERO OF A PEN AND INK RECORDER DATE ANNOUNCED 09 06 68 | |
| RECORDING | A VERSATILE PRESSURE RECORDING SYSTEM. TRANSDUCER, RECORDING DATE ANNOUNCED 09 20 68 | I1839 |
| RECORDING | A VERSATILE PRESSURE RECORDING SYSTEM. TRANSDUCER, RECORDING DATE ANNOUNCED 09 20 68 | I1839 |
| RECORDINGS | THE VIDEO TAPE RECORDINGS OF ULTRASONIC TEST INFORMATION. NONDESTRUCTIVE TESTING, INSPECTION INSTRUMENTATION DATE ANNOUNCED 07 12 68 | I1730 |
| RECOVERY | TECHNIQUE FOR RECOVERY OF ALKALI-METAL REACTION PRODUCTS. POTASSIUM DATE ANNOUNCED 02 02 68 | I1548 |
| RECOVERY | SLIP POWER RECOVERY IN AN INDUCTION MOTOR BY THE USE OF A THYRISTOR INVERTER. ELECTRIC MOTORS, FEEDBACK CONTROLS DATE ANNOUNCED 05 24 68 | I1674 |
| REDUCTION | A COMPUTER METHOD FOR THE AUTOMATIC REDUCTION OF SPECTROSCOPIC DATA. ANALYTICAL CHEMISTRY, INSTRUMENTAL ANALYSIS DATE ANNOUNCED 05 10 68 | I1658 |
| REDUNDANT | MICROPOWER ERROR-CORRECTING REDUNDANT CIRCUIT DESIGN. ELECTRONICS DATE ANNOUNCED 01 19 68 | I1531 |

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| REFERENCE | CRITERIA FOR COMPANY INVESTMENT IN RESEARCH, WITH PARTICULAR REFERENCE TO THE CHEMICAL INDUSTRY. | I1519 |
| | DATE ANNOUNCED 01 12 68 | |
| REFERENCE | ON TWO TIME-SCALES IN LINEAR SYSTEMS WITH SPECIAL REFERENCE TO ADAPTIVE CONTROL. FEEDBACK | I1536 |
| | DATE ANNOUNCED 01 26 68 | |
| REFLECTION | X-RAY MICROSCOPY APPLIED TO MATERIALS SCIENCE, INCLUDING DIVERGENT BEAM ANALYSIS--BIBLIOGRAPHY. MICRORADIOGRAPHY, REFLECTION, MICROSCOPY | I1855 |
| | DATE ANNOUNCED 11 08 68 | |
| REFLECTIVITY | THERMAL RADIATION HEAT TRANSFER - VOLUME I. BLACKBODY RADIATION, EMISSIVITY, ABSORPTIVITY, REFLECTIVITY, ELECTROMAGNETIC | I1787 |
| | DATE ANNOUNCED 08 30 68 | |
| REFRACTIVE | SIMULTANEOUS DETERMINATION OF REFRACTIVE INDEX AND THICKNESS OF VERY THIN FILMS BY ELLIPSOMETRY. ELLIPSOMETRY | I1687 |
| | DATE ANNOUNCED 06 07 68 | |
| REFRACTORY | PRECISE DETERMINATION OF OXYGEN IN REFRACTORY OXIDES BY INERT GAS FUSION-GAS CHROMATOGRAPHY. ANALYSIS | I1529 |
| | DATE ANNOUNCED 01 19 68 | |
| REFRACTORY | CHEMICAL MILLING. ALUMINUM, TITANIUM, REFRACTORY, METAL, MACHINING | I1820 |
| | DATE ANNOUNCED 09 27 68 | |
| REGRESSION | CORRELATION AND REGRESSION TECHNIQUES. STATISTICS | I1569 |
| | DATE ANNOUNCED 02 23 68 | |
| REINFORCED | PRELIMINARY INVESTIGATIONS INTO THE USE OF GLASS BEADS IN FIBERGLASS REINFORCED PLASTICS. COMPOSITE | I1608 |
| | DATE ANNOUNCED 03 29 68 | |

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| REINFORCED | CURRENT DEVELOPMENTS IN FIBER REINFORCED COMPOSITES | I1755 |
| | DATE ANNOUNCED 08 02 68 | |
| RELATIONSHIP | THE RELATIONSHIP BETWEEN MOLECULAR STRUCTURES, MORPHOLOGY, AND THE MECHANICAL PROPERTIES OF POLYMERIC MATERIALS. POLYMERS, POLYSTYRENE, VISCOELASTIC | I1854 |
| | DATE ANNOUNCED 11 21 68 | |
| RELAY | HERMETIC SEAL EVALUATION FOR ELECTRONIC COMPONENTS. RELAY, LIFE TEST, LEAKAGE | I1841 |
| | DATE ANNOUNCED 10 18 68 | |
| RELIABILITY | REVIEW OF NONDESTRUCTIVE TESTING TECHNIQUES FOR DETECTING LACK OF PENETRATION IN ALUMINUM FUSION WELDS. RELIABILITY, STRUCTURAL | I1572 |
| | DATE ANNOUNCED 02 23 68 | |
| RELIABILITY | ELECTRON MICROBEAM TESTING OF INTEGRATED CIRCUITS. RELIABILITY, INSPECTION | I1650 |
| | DATE ANNOUNCED 05 03 68 | |
| RELIABILITY | PRACTICAL RELIABILITY | I1781 |
| | DATE ANNOUNCED 08 30 68 | |
| RELIABILITY | PRACTICAL RELIABILITY--VOLUME IV--PREDICTION. RELIABILITY MODELS | I1877 |
| | DATE ANNOUNCED 11 22 68 | |
| RELIABILITY | PRACTICAL RELIABILITY - VOLUME III - TESTING | I1837 |
| | DATE ANNOUNCED 10 18 68 | |
| RELIABILITY | COMPUTERIZED ARRHENIUS RELIABILITY EXTRAPOLATION TECHNIQUES. FAILURE, TESTING | I1912 |
| | DATE ANNOUNCED 12 20 68 | |
| RELIABILITY | ESTIMATING THE RELIABILITY OF SYSTEMS. COMPONENTS | I1861 |
| | DATE ANNOUNCED 11 08 68 | |

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| RELIABILITY--VOL | PRACTICAL RELIABILITY--VOLUME V--PARTS. PARTS DATE ANNOUNCED 12 06 68 | I1894 |
| RELIABILITY--VOL | PRACTICAL RELIABILITY--VOLUME II, COMPUTATION. COMPUTER DATE ANNOUNCED 09 13 68 | I1892 |
| RELIABILITY--VOL | PRACTICAL RELIABILITY--VOLUME IV--PREDICTION. RELIABILITY MODELS DATE ANNOUNCED 11 22 68 | I1877 |
| RELIEF | DEVELOPMENT OF TECHNIQUES FOR CONTROLLING WARPAGE AND RESIDUAL STRESSES IN WELDED STRUCTURES. JOINING, STRESS RELIEF DATE ANNOUNCED 11 08 68 | I1866 |
| REPEATED | FLAT-CRUSH CUSHIONING CAPABILITY OF CORUGATED FIBERGARD PADS UNDER REPEATED LOADING. DATE ANNOUNCED 05 17 68 | I1663 |
| REPLICATION | USE OF SURFACE REPLICATION, EXTRACTION REPLICATION, AND THIN-FILM ELECTRON MICROSCOPY IN THE STUDY OF DISPERSION-STRENGTHENED MATERIALS. MICROSTRUCTURE DATE ANNOUNCED 04 05 68 | I1615 |
| REPLICATION | USE OF SURFACE REPLICATION, EXTRACTION REPLICATION, AND THIN-FILM ELECTRON MICROSCOPY IN THE STUDY OF DISPERSION-STRENGTHENED MATERIALS. MICROSTRUCTURE DATE ANNOUNCED 04 05 68 | I1615 |
| REPRESENTATIVES | PRINCIPAL REPRESENTATIVES OF CARBORANESTLOXANE POLYMERS AND THEIR PROPERTIES. HIGH TEMPERATURE POLYMERS DATE ANNOUNCED 06 21 68 | I1705 |
| RESETTABLE | ELECTRONIC RESETTABLE FUSE EVALUATION DATE ANNOUNCED 07 05 68 | I1717 |

- RESIDUAL DEVELOPMENT OF NON-DESTRUCTIVE I1782
METHODS FOR DETERMINING
RESIDUAL STRESS AND FATIGUE DAMAGE IN
METALS. ULTRASONIC, TRANSDUCER
SURFACE RESISTANCE
DATE ANNOUNCED 08 30 68
- RESIDUAL DEVELOPMENT OF TECHNIQUES FOR I1866
CONTROLLING WARPAGE AND
RESIDUAL STRESSES IN WELDED
STRUCTURES. JOINING, STRESS
RELIEF
DATE ANNOUNCED 11 08 68
- RESIN WATER-EXTENDED POLYESTER RESIN (WEP) I1831
FOR LIMITED WAR SHELTER
CONSTRUCTION. PLASTICS
DATE ANNOUNCED 10 11 68
- RESIN UXIRANE-POLYESTER RESIN SYSTEM IN AIR I1857
DRYING GLOSS ENAMELS.
ATMOSPHERIC EXPOSURE, CHEMICAL
RESISTANCE, CHALKING
DATE ANNOUNCED 11 01 68
- RESIN-TREATED STUDIES AND EXPERIMENTAL I1537
INVESTIGATIONS IN CONNECTION WITH
CHEMICAL BONDING IN RESIN-TREATED
CELLULOSE.
DATE ANNOUNCED 01 19 68
- RESINS DEVELOPMENT OF FLEXIBLE EPOXY RESINS I1681
AND COATINGS
DATE ANNOUNCED 05 31 68
- RESINS BIBLIOGRAPHY ON APPLICATIONS OF I1765
PLASTICS. POLYMERS, RESINS
DATE ANNOUNCED 08 16 68
- RESINS BIBLIOGRAPHY ON APPLICATIONS OF I1765
PLASTICS. POLYMERS, RESINS
DATE ANNOUNCED 08 23 68
- RESINS FLAMMABILITY OF EPOXY RESINS. POTTING I1739
COMPOUNDS
DATE ANNOUNCED 07 19 68

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| RESINS | SILICONES IN OUTER SPACE. ELASTOMERS, 11813 RESINS, LUBRICANTS DATE ANNOUNCED 19 27 68 | |
| RESISTANCE | COMPRESSION SET RESISTANCE IN SILICONE RUBBERS. CURING DATE ANNOUNCED 14 35 68 | 11618 |
| RESISTANCE | CRYOGENIC TEMPERATURE MEASUREMENT USING PLATINUM RESISTANCE THERMOMETERS. DATE ANNOUNCED 14 19 68 | 11636 |
| RESISTANCE | STUDY ON DEVELOPMENT OF TECHNIQUES FOR RESISTANCE WELDING, PHASES I AND II. INSPECTION, NDT. DATE ANNOUNCED 01 19 68 | 11532 |
| RESISTANCE | CHARACTERISTICS OF TWO COMMERCIAL HIGH-TEMPERATURE ELECTRIC RESISTANCE STRAIN GAGES. INSTRUMENTATION, MECHANICAL TESTING, STRUCTURAL TESTING DATE ANNOUNCED 06 28 68 | 11714 |
| RESISTANCE | INSTRUMENTATION FOR DYNAMIC MEASUREMENTS OF RESISTANCE WELDING CURRENT AND ELECTRODE FORCE. FASTENING, MATERIAL JOINING DATE ANNOUNCED 08 39 68 | 11758 |
| RESISTANCE | HEAT TREATMENT FOR IMPROVED STRESS-CORROSION RESISTANCE OF 17-7 PH STAINLESS STEEL. FRACTURE DATE ANNOUNCED 08 16 68 | 11779 |
| RESISTANCE | DEVELOPMENT OF NON-DESTRUCTIVE METHODS FOR DETERMINING RESIDUAL STRESS AND FATIGUE DAMAGE IN METALS. ULTRASONIC, TRANSDUCER SURFACE RESISTANCE DATE ANNOUNCED 08 30 68 | 11782 |
| RESISTANCE | A SUGGESTED METALLURGICAL PARAMETER IN ALLOY SELECTION FOR CAVITATION RESISTANCE. ELASTIC-PLASTIC STRAIN ENERGY DATE ANNOUNCED 11 15 68 | 11873 |

- RESISTANCE SPOT WELDING STAINLESS STEEL FOIL BY THE EXPENDABLE-WIRE TECHNIQUE. FASTENING, JOINING DATE ANNOUNCED 11 08 68 11862
- RESISTANCE OXIRANE-POLYESTER RESIN SYSTEM IN AIR DRYING GLOSS ENAMELS. ATMOSPHERIC EXPOSURE, CHEMICAL RESISTANCE, CHALKING DATE ANNOUNCED 11 01 68
- RESISTANT SPECIAL SAFETY STUDY. TESTING "NOMEX" MATERIAL AS HEAT RESISTANT CLOTHING FOR INDUSTRIAL APPLICATION. THERMAL PROTECTION DATE ANNOUNCED 04 19 68 11633
- RESISTANT DEVELOPMENT OF SOLVENT RESISTANT SEALANTS (1968). URETHANE DATE ANNOUNCED 07 19 68 11733
- RESISTANT RODENT RESISTANT CABLE MATERIALS DATE ANNOUNCED 08 30 68 11784
- RESISTANT TESTING "NOMEX" MATERIAL AS HEAT RESISTANT CLOTHING FOR INDUSTRIAL APPLICATION. SAFETY, FIRE PROTECTION DATE ANNOUNCED 06 14 68 11696
- RESISTANT PHYSICAL AND RHEOLOGICAL PROPERTIES OF FLUORONITRILE RUBBERS. SOLVENT RESISTANT, LOW TEMPERATURE, ELASTOMER DATE ANNOUNCED 12 27 68 11918
- RESISTIVITY AUTOMATED DATA COLLECTION SYSTEM APPLIED TO HALL EFFECT AND RESISTIVITY MEASUREMENTS. CONTROL, COMPUTER DATE ANNOUNCED 02 02 68 11545
- RESISTIVITY ELECTRICAL PROPERTIES OF POLYMERS. DIELECTRIC, RESISTIVITY, DISSIPATION FACTOR DATE ANNOUNCED 08 02 68 11749

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| RESONANCE-TYPE | A RESONANCE-TYPE ULTRASONIC THICKNESS GAGE FOR MEASURING THE WALL THICKNESS AND CORROSION OF CHEMICAL PLANT EQUIP. | I1601 |
| | DATE ANNOUNCED 05 17 68 | |
| RESONATORS | INVESTIGATION OF ELECTRONIC INTERACTION WITH OPTICAL RESONATORS FOR MICROWAVE GENERATION AND AMPLIFICATION. | I1522 |
| | DATE ANNOUNCED 01 12 68 | |
| RESPONSE | DESIGN AND ANALYSIS OF A MODULAR SERVOCOMPENSATOR FOR FAST-RESPONSE ELECTROHYDRAULIC CONTROL SYSTEMS. AMPLIFIER, SERVO VALVES | I1870 |
| | DATE ANNOUNCED 11 15 68 | |
| RESYNCHRONIZATION | A RESYNCHRONIZATION TECHNIQUE FOR A SEQUENTIAL DECODER. | I1560 |
| | DATE ANNOUNCED 02 16 68 | |
| RETAINED | EVALUATION OF THE X-RAY DIFFRACTION METHOD FOR DETERMINING VOLUME PERCENT OF RETAINED AUSTENITE IN CARBON STEEL. METALLOGRAPHY, PHASE | I1779 |
| | DATE ANNOUNCED 08 23 68 | |
| RETENTION | OUNTING MATERIALS AND ALUMINA FOR EDGE RETENTION IN PREPARING METALLOGRAPHIC SPECIMENS. METALLOGRAPHY, POLISHING | I1842 |
| | DATE ANNOUNCED 10 18 68 | |
| RETRIEVAL | INFORMATION CENTERS FOR DESIGNERS. RETRIEVAL | I1916 |
| | DATE ANNOUNCED 12 20 68 | |
| RHEOLOGICAL | PHYSICAL AND RHEOLOGICAL PROPERTIES OF FLUORONITROSO RUBBERS. SOLVENT RESISTANT, LOW TEMPERATURE, ELASTOMER | I1918 |
| | DATE ANNOUNCED 12 27 68 | |
| RIG | AN EXTENSOMETER CALIBRATING RIG. TENSILE, MECHANICAL TESTING, INSTRUMENTATION | I1800 |
| | DATE ANNOUNCED 09 13 68 | |

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| RIGID | STRUCTURAL APPLICATION CHARACTERISTICS OF A RIGID URETHANE FOAM SYSTEM. TEMPERATURE, CURE DATE ANNOUNCED 01 05 68 | I1515 |
| RIVETED | PANEL LOSS FACTORS DUE TO GAS PUMPING I1580 AT STRUCTURAL JOINTS. RIVETED JOINT, DAMPING DATE ANNOUNCED 03 01 68 | |
| ROADS | EFFECTIVENESS OF ANTICORROSION ADDITIVES IN DEICING SALTS. CORROSION, ROADS, ICE, SNOW DATE ANNOUNCED 12 13 68 | I1922 |
| RODENT | RODENT RESISTANT CABLE MATERIALS DATE ANNOUNCED 08 30 68 | I1784 |
| ROLE | THE ROLE OF ENERGY IN DEFORMATION. STRESS, STRAIN, MECHANICAL BEHAVIOR, FRACTURE, PLASTIC FLOW DATE ANNOUNCED 05 31 68 | I1682 |
| ROLLING-CONTACT | ROLLING-CONTACT, OIL, ELASTOHYDRODYNAMIC APPLICATIONS. | |
| ROOM | AN APPARATUS TO MEASURE THE THERMAL CONDUCTIVITY OF GRAPHITE NEAR ROOM TEMPERATURE. HEAT FLUX DATE ANNOUNCED 08 16 68 | I1768 |
| ROTARY | DISCUSSION OF ROTARY JOINT CHARACTERISTICS FOR FREQUENCIES OUT OF THE DESIGN BAND. FILTERS, CABLE DATE ANNOUNCED 03 01 68 | I1579 |
| ROUTINES | DEVELOPMENT OF FULLY PROCEDURALIZED TROUBLE-SHOOTING ROUTINES. MAINTENANCE, ANALYSIS DATE ANNOUNCED 04 19 68 | I1629 |
| RUBBER | INFORMATION SOURCES ON RUBBER FOR ENGINEERS AND DESIGNERS. DATE ANNOUNCED 01 05 68 | I1510 |

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| RUBBERS | CORPORATION SET RESISTANCE IN SILICONE RUBBERS. CURING DATE ANNOUNCED 04 25 68 | I1618 |
| RUBBERS | PHYSICAL AND RHEOLOGICAL PROPERTIES OF FLUORONITROSO RUBBERS. SOLVENT RESISTANT, LOW TEMPERATURE, ELASTOMER DATE ANNOUNCED 12 27 68 | I1918 |
| SAFETY | CHEMICAL SAFETY. HANDLING DATE ANNOUNCED 01 05 68 | I1512 |
| SAFETY | SPECIAL SAFETY STUDY. TESTING 'NOMEX' MATERIAL AS HEAT RESISTANT CLOTHING FOR INDUSTRIAL APPLICATION. THERMAL PROTECTION DATE ANNOUNCED 04 19 68 | I1633 |
| SAFETY | HOST EXPLOSIBILITY OF CHEMICALS, DRUGS, DYES, AND PESTICIDES. INDUSTRIAL SAFETY DATE ANNOUNCED 07 12 68 | I1729 |
| SAFETY | TESTING 'NOMEX' MATERIAL AS HEAT RESISTANT CLOTHING FOR INDUSTRIAL APPLICATION. SAFETY, FIRE PROTECTION DATE ANNOUNCED 06 14 68 | I1696 |
| SAFETY | GASIOUS EXPLOSIONS IN DUCTS. INDUSTRIAL SAFETY, FIRE EXTINGUISHERS DATE ANNOUNCED 05 24 68 | I1671 |
| SAFETY | MINIATURE BI LEVEL ALARM FOR OXYGEN DEFICIENT ATMOSPHERES. SAFETY DEVICE, CELL DATE ANNOUNCED 10 18 68 | I1844 |
| SALTS | EFFECTIVENESS OF ANTICORROSION ADDITIVES IN DEICING SALTS. CORROSION, ROADS, ICE, SNOW DATE ANNOUNCED 12 13 68 | I1932 |

- SAMPLE DETERMINATION OF SAMPLE SIZE FOR MINIMIZING PROBABLE COSTS IN DESTRUCTIVE TESTING. QUALITY CONTROL, INSPECTION DATE ANNOUNCED 03 08 68 11581
- SAMPLE A SERVOCONTROLLER FOR PROGRAMMING SAMPLE VAPORIZATION IN DIRECT CURRENT ARC SPECTROCHEMICAL ANALYSIS. ANALYTICAL CHEMISTRY DATE ANNOUNCED 09 13 68 11873
- SAMPLING SOME BAYESIAN STRATIFIED TWO-PHASE SAMPLING RESULTS. STATISTICS DATE ANNOUNCED 1 12 68 11521
- SAMPLING A DECISION THEORY APPROACH TO ACCEPTANCE TESTING. SAMPLING, INSPECTION, BAYESIAN DATE ANNOUNCED 04 26 68 11637
- SAMPLING MICROSCOPIC PARTICLE SEPARATION AND APPLICATIONS. AIR POLLUTION, SAMPLING DATE ANNOUNCED 06 21 68 11734
- SAMPLING A HIGH PRECISION LOGARITHMIC AMPLIFIER USING SAMPLING TECHNIQUES. PG NETWORK, CASCADING, VOLTAGE DECAY DATE ANNOUNCED 11 15 68 11875
- SANDWICH SURVEY OF PLASTICS SANDWICH CONSTRUCTION. ADHESIVES, SEALANTS, FASTENERS DATE ANNOUNCED 08 30 68 11788
- SATISFACTION EFFECTS OF MUSIC ON WORK PERFORMANCE. ENVIRONMENTAL EFFECTS, JOB SATISFACTION DATE ANNOUNCED 06 28 68 11711
- SCANNER SPATIAL INTENSITY DISTRIBUTION AND COLOR ANALYZER. SCANNER DATE ANNOUNCED 03 22 68 11692

- SCANNING TESTING OF MICROELECTRONICS. THE I1583
ELECTRON MICROPROBE AND THE SCANNING ELECTRON MICROSCOPE.
BIBLIOGRAPHY
DATE ANNOUNCED 13 08 68
- SCATTERING INVESTIGATION OF CRYSTAL I1589
IMPERFECTIONS BY MEANS OF LASER LIGHT SCATTERING. PHYSICAL PROPERTIES, SINGLE CRYSTAL
DATE ANNOUNCED 06 07 68
- SCATTERING TIME-DEPENDENCE OF CRYSTAL I1827
ORIENTATION IN CRYSTALLINE POLYMERS. POLYETHYLENE, X-RAY DIFFRACTION, LIGHT SCATTERING
DATE ANNOUNCED 09 20 68
- SCHEDULING FIRST-COME-FIRST-SERVE SCHEDULING IS I1554
OFTEN OPTIMAL. PART I-
SYMMETRY-CONVEXITY. PRODUCTION
DATE ANNOUNCED 02 09 68
- SCIENCE X-RAY MICROSCOPY APPLIED TO MATERIALS I1865
SCIENCE, INCLUDING DIVERGENT BEAM ANALYSIS--BIBLIOGRAPHY,
MICRORADIOGRAPHY, REFLECTION,
MICROSCOPY
DATE ANNOUNCED 11 08 68
- SCIENCE OBJECTIVES AND GOALS IN SPACE SCIENCE I1910
AND APPLICATIONS-1968.
DATE ANNOUNCED 12 20 68
- SCIENCE GLOSSARY TO THE SCIENCE OF I1882
COMPOSITES. TERMINOLOGY
DATE ANNOUNCED 11 22 68
- SCOPIC A COMPUTER METHOD FOR THE AUTOMATIC I1658
REDUCTION OF SPECTRO- SCOPIC
DATA. ANALYTICAL CHEMISTRY,
INSTRUMENTAL ANALYSIS
DATE ANNOUNCED 05 10 68
- SCR THE SCR AS A HIGH POWER MODULATOR I1630
SWITCH. CIRCUITRY,
TRIGGERING
DATE ANNOUNCED 04 19 68

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| SEAL | HERMETIC SEAL EVALUATION FOR ELECTRONIC COMPONENTS. RELAY, TEST, LEAKAGE DATE ANNOUNCED 10 18 68 | I1841 LIFE |
| SEALANTS | SURVEY OF PLASTICS SANDWICH CONSTRUCTION. ADHESIVES, SEALANTS, FASTENERS DATE ANNOUNCED 08 31 68 | I1788 |
| SEALANTS | DEVELOPMENT OF SOLVENT RESISTANT SEALANTS (1968). URETHANE DATE ANNOUNCED 07 19 68 | I1733 |
| SEALING | SEALS AND SEALING TECHNIQUES. GASKET, O-RING, LEAKAGE DATE ANNOUNCED 02 23 68 | I1567 |
| SEALING | SELECTING SURFACE PREPARATION PROCESSES FOR ADHESIVE BINDING, SEALING, AND COATING DATE ANNOUNCED 10 04 68 | I1822 |
| SEALS | SEALS AND SEALING TECHNIQUES. GASKET, O-RING, LEAKAGE DATE ANNOUNCED 02 23 68 | I1567 |
| SECONDARY | PRIMARY AND SECONDARY GALVANIC CELLS--HISTORY AND STATE-OF-THE-ART SUMMARY. ELECTROCHEMICAL BATTERIES, EMF DATE ANNOUNCED 11 08 68 | I1864 |
| SELECTED | SELECTED FLUID AND VACUUM TECHNOLOGY. I1559 PRESSURE DATE ANNOUNCED 02 16 68 | |
| SELECTED | SELECTED PHOTOGRAPHIC TECHNIQUES DATE ANNOUNCED 06 07 68 | I1690 |
| SELECTED | SELECTED TECHNOLOGY FOR THE ELECTRIC POWER INDUSTRY. DATE ANNOUNCED 11 29 68 | I1892 |
| SELECTING | SELECTING SURFACE PREPARATION PROCESSES FOR ADHESIVE BINDING, SEALING, AND COATING DATE ANNOUNCED 10 04 68 | I1822 |

SELECTION THE THIRD NATIONAL CONFERENCE ON AIR I1534
POLUTION SITE SELECTION
DATE ANNOUNCED 01 25 68

SELECTION SELECTION OF AN INSULATION SYSTEM I1727
DATE ANNOUNCED 07 12 68

SELECTION A SUGGESTED METALLURGICAL PARAMETER I1873
IN ALLOY SELECTION FOR CAVITATION
RESISTANCE. ELASTIC-PLASTIC STRAIN
ENERGY
DATE ANNOUNCED 11 15 68

SELF-ADHESION THE INFLUENCE OF GASEOUS ENVIRONMENT I1921
ON THE SELF-ADHESION OF METALS.
ADSORPTION, METAL-GAS
DATE ANNOUNCED 12 27 68

SEMICONDUCTOR PREVENTION OF STRESS-CORROSION I1517
FAILURE IN IRON-NICKEL-COBALT
ALLOY SEMICONDUCTOR DEVICE LEADS.
ELECTRONICS, CIRCUIT
DATE ANNOUNCED 01 12 68

SEMICONDUCTOR DEVELOPMENT OF MATHEMATICAL MODELS OF I1520
SEMICONDUCTOR DEVICES FOR
COMPUTER-AIDED CIRCUIT ANALYSIS.
DIODE
DATE ANNOUNCED 01 12 68

SEMICONDUCTOR EVALUATION OF MOS FIELD-EFFECT I1596
TRANSISTORS IN ANALOG GATING
APPLICATIONS. SEMICONDUCTOR,
SWITCHING
DATE ANNOUNCED 03 15 68

SEMICONDUCTOR EXTERNAL VISUAL INSPECTION CRITERIA I1761
FOR SEMICONDUCTOR
DEVICES
DATE ANNOUNCED 08 09 68

SENSING A SMALL COMBINATION SENSING PROBE FOR I1868
MEASUREMENT OF TEMPERATURE,
PRESSURE, AND FLOW DIRECTION. NONE
DATE ANNOUNCED 11 08 68

SENSITIVITY SENSITIVITY TESTING. EXPERIMENTS I1603
DATE ANNOUNCED 03 22 68

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| SENSITIZATION | A STUDY OF SENSITIZATION IN TYPES 301 11801 AND 304L STAINLESS STEELS USING NUSSBAUER SPECTROSCOPY. CARBIDE, PRECIPITATION, INTERGRANULAR CORROSION | 11801 |
| | DATE ANNOUNCED 09 13 68 | |
| SENSOR | LABORATORY CONTAMINANT SENSOR. INSTRUMENT, ANALYTICAL CHEMISTRY, AIR POLLUTION | 11764 |
| | DATE ANNOUNCED 08 09 68 | |
| SENSOR | STUDIES OF A FLUIDIC OSCILLATOR AS A TEMPERATURE SENSOR. CONTROL | 11815 |
| | DATE ANNOUNCED 09 27 68 | |
| SENSORS | PERFORMANCE OF THIN FILM HUMIDITY SENSORS. HYGROMETER, INSTRUMENTATION, ANODIC FILMS | 11688 |
| | DATE ANNOUNCED 06 07 68 | |
| SEPARATION | MICROSCOPIC PARTICLE SEPARATION AND APPLICATIONS. AIR POLLUTION, SAMPLING | 11704 |
| | DATE ANNOUNCED 06 21 68 | |
| SEQUENTIAL | A RESYNCHRONIZATION TECHNIQUE FOR A SEQUENTIAL DECODER. | 11560 |
| | DATE ANNOUNCED 02 16 68 | |
| SERVO | DESIGN AND ANALYSIS OF A MODULAR SERVODCPLIFIER FOR FAST- RESPONSE ELECTROHYDRAULIC CONTROL SYSTEMS. AMPLIFIER, SERVO VALVES | 11870 |
| | DATE ANNOUNCED 11 15 68 | |
| SERVODCPLIFIER | DESIGN AND ANALYSIS OF A MODULAR SERVODCPLIFIER FOR FAST- RESPONSE ELECTROHYDRAULIC CONTROL SYSTEMS. AMPLIFIER, SERVO VALVES | 11870 |
| | DATE ANNOUNCED 11 15 68 | |
| SERVOCONTROLLER | A SERVOCONTROLLER FOR PROGRAMMING SAMPLE VAPORIZATION IN DIRECT CURRENT ARC SPECTROCHEMICAL ANALYSIS. ANALYTICAL CHEMISTRY | 11803 |
| | DATE ANNOUNCED 09 13 68 | |

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| SET | DEVELOPMENT OF A FLUIDIC SPEED/LOAD CONTROLLER FOR A MOTOR- GENERATOR SET. | I1556 |
| | DATE ANNOUNCED 02 09 68 | |
| SET | COMPRESSION SET RESISTANCE IN SILICONE RUBBERS. CURING | I1618 |
| | DATE ANNOUNCED 04 05 68 | |
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| STRAIN | THE -S/N- FATIGUE LIFE GAGE. STRAIN GAGE, STRUCTURAL TESTING, MECHANICAL PROPERTIES, INSTRUMENTATION. | I1692 DATE ANNOUNCED 06 07 68 |
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- STRESS A PHOTUELASTIC DETERMINATION ON THE NORMAL STRESS UNDER FASTENERS. I1887
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| STRUCTURE | MOLECULAR STRUCTURE OF STRONG ACIDS. IONIZATION | 11738 |
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| STRUCTURE | A STUDY OF THE STRUCTURE CHANGE OF WATER BY MEASURING THE SOUND VELOCITY. | 11923 |
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| STRUCTURES | LATTICE STRUCTURES IN SOLUTIONS. ALKALI HALIDES | 11627 |
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| STUDIES | PULSE POLARIZER STUDIES OF CORROSION PREVENTIVE OILS. FILM, LUBRICANT | I1845 |
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| STUDIES | STUDIES OF A FLUIDIC OSCILLATOR AS A TEMPERATURE SENSOR. CONTROL | I1815 |
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| SUB-AUDIO | LOW FREQUENCY SUB-AUDIO TRIPLEXER. OSCILLOGRAPH, RECORDER, INSTRUMENTATION | I1680 |
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| SUBJECTED | RESEARCH TO DETERMINE THE LONG TERM MECHANICAL PROPERTIES OF METALS SUBJECTED TO MECHANICAL STRESS AT ELEVATED TEMPERATURES AND NEUTRON IRRADIATION. | I1601 |
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| SULFONATES | THE EFFECT OF SULFONATES ON THE PERMEABILITY OF OIL FILMS. SURFACE POTENTIAL | I1880 |
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| SUMMARY | A SUMMARY OF TERMINOLOGY AND CRITERIA EMPLOYED IN IMAGE QUALITY ASSESSMENT AND SPECIFICATION. ELECTRO-OPTICAL, DISPLAYS | I1632 |
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| SUPPLY | HAND-HELD ELECTRON BEAM GUN AND EXTERNAL POWER SUPPLY. WELDING, JOINING DATE ANNOUNCED 07 26 68 | I1742 |
| SUPPLY | ELECTRONIC CIRCUITS. OSCILLATOR, AMPLIFIER, POWER SUPPLY DATE ANNOUNCED 05 17 68 | I1667 |
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| SWITCH | THE SCR AS A HIGH POWER MODULATOR SWITCH. CIRCUITRY, TRIGGERING DATE ANNOUNCED 04 19 68 | I1630 |
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| TECHNIQUE | EVALUATION OF MAGNETIC PULSE FORMING AS A JOINT FABRICATION TECHNIQUE FOR CP-5 FUEL ELEMENTS. ALUMINUM DATE ANNOUNCED 03 29 68 | I1610 |
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| TECHNIQUE | A RESYNCHRONIZATION TECHNIQUE FOR A SEQUENTIAL DECODER. DATE ANNOUNCED 02 16 68 | I1560 |
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| TECHNIQUES | THE COATING OF ALUMINUM WITH PLASTICS BY THE FLUIDIZED-BED AND ELECTROSTATIC POWDER TECHNIQUES. DATE ANNOUNCED 05 17 68 | I1662 |
| TECHNIQUES | FASTENERS AND FASTENING TECHNIQUES. JOINING, FABRICATION DATE ANNOUNCED 07 26 68 | I1741 |
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| TECHNIQUES | SELECTED PHOTOGRAPHIC TECHNIQUES DATE ANNOUNCED 06 07 68 | I1690 |
| TECHNIQUES | ELECTRICAL HAND TOOLS AND TECHNIQUES DATE ANNOUNCED 06 14 68 | I1698 |
| TECHNIQUES | A HIGH PRECISION LOGARITHMIC AMPLIFIER USING SAMPLING TECHNIQUES. RC NETWORK, CASCADING, VOLTAGE DECAY DATE ANNOUNCED 11 15 68 | I1875 |
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| TECHNIQUES | COMPUTERIZED ARRHENIUS RELIABILITY EXTRAPOLATION TECHNIQUES. FAILURE, TESTING DATE ANNOUNCED 12 27 68 | I1912 |
| TECHNIQUES | DEVELOPMENT OF TECHNIQUES FOR CONTROLLING WARPAGE AND RESIDUAL STRESSES IN WELDED STRUCTURES. JOINING, STRESS RELIEF DATE ANNOUNCED 11 06 68 | I1856 |
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| TECHNOLOGY | SURFACES AND INTERFACES IN MATERIALS TECHNOLOGY. ADHESION, FRICTION DATE ANNOUNCED 02 02 68 | I1541 |
| TECHNOLOGY | SELECTED FLUID AND VACUUM TECHNOLOGY. I1559 PRESSURE DATE ANNOUNCED 02 16 68 | |
| TECHNOLOGY | MACHINE SHOP MEASUREMENT TECHNOLOGY. I1644 SAGES, FIXTURES, INSPECTION DATE ANNOUNCED 04 26 68 | |
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| TECHNOLOGY | LONG TERM IMPACTS OF BIG TECHNOLOGY. I1893 CONTRACTS, FEDERAL GOVERNMENT DATE ANNOUNCED 12 06 68 | |
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| TECHNOLOGY--PRES | BIOLOGICAL WASTE TREATMENT TECHNOLOGY--PRESENT AND FUTURE. WATER TREATMENT, SEWAGE AEROBIC, BIOCHEMICAL DATE ANNOUNCED 09 27 68 | I1816 |
| TEFLON | SOLID LUBRICATION TECHNOLOGY--A REVIEW. GRAPHITE, MOLYBDENUM SULFIDE, TEFON DATE ANNOUNCED 10 04 68 | I1825 |
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| TELEVISION | STUDY AND DEVELOPMENT OF TELEVISION PROJECTOR VIDEO AMPLIFIER TECHNIQUES. DATE ANNOUNCED 02 16 68 | I1563 |
| TEMPERATURE | THIN FILM THERMAL DETECTOR. TEMPERATURE MEASUREMENT, INTEGRATED CIRCUITS DATE ANNOUNCED 04 05 68 | I1619 |
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| VACUUM | STUDY OF NEW METHODS TO MEASURE LOW PRESSURE. MANOMETER, VACUUM DATE ANNOUNCED 10 04 68 | I1825 |
| VALVE | NOISE--SOUND WITHOUT VALUE. INDUSTRIAL HEALTH, AIRCRAFT, HEARING DATE ANNOUNCED 12 13 68 | I1905 |
| VALVES | CORRELATIONS FOR PREDICTING LEAKAGE THROUGH CLOSED VALVES. FLUIDS DATE ANNOUNCED 03 01 68 | I1573 |
| VALVES | DESIGN AND ANALYSIS OF A MODULAR SERVOAMPLIFIER FOR FAST- RESPONSE ELECTROHYDRAULIC CONTROL SYSTEMS. AMPLIFIER, SERVO VALVES DATE ANNOUNCED 11 15 68 | I1870 |
| VAPOR | THE DEVELOPMENT OF AN ALKALI METAL VAPOR ARC LAMP. LIGHT, LIGHT SOURCE DATE ANNOUNCED 03 01 68 | I1578 |
| VAPORIZATION | A SERVOCONTROLLER FOR PROGRAMMING SAMPLE VAPORIZATION IN DIRECT CURRENT ARC SPECTROCHEMICAL ANALYSIS. ANALYTICAL CHEMISTRY DATE ANNOUNCED 09 13 68 | I1803 |
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| VARIANCE | A GENERAL FORTRAN PROGRAM FOR LEAST-SQUARES ANALYSIS OF VARIANCE DATE ANNOUNCED 18 30 68 | I1736 |
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| VELOCITY | A STUDY OF THE STRUCTURE CHANGE OF WATER BY MEASURING THE SOUND VELOCITY. DATE ANNOUNCED 12 27 68 | I1923 |
| VERSATILE | A VERSATILE PRESSURE RECORDING SYSTEM. TRANSDUCER, RECORDING DATE ANNOUNCED 09 23 68 | I1839 |
| VERY | SIMULTANEOUS DETERMINATION OF REFRACTIVE INDEX AND THICKNESS OF VERY THIN FILMS BY ELLIPSOMETRY. ELLIPSOMETRY DATE ANNOUNCED 16 17 68 | I1657 |
| VESSELS | PERFORMANCE OF TITANIUM IN THE CHEMICAL INDUSTRY. CORROSION, HEAT EXCHANGERS, VESSELS DATE ANNOUNCED 12 24 68 | I1915 |
| VIA | CORROSION PROTECTION VIA FLAME SPRAYING. METALLIZING, COATING, METALLIC COATING, CERAMIC DATE ANNOUNCED 08 02 68 | I1750 |
| VIBRATION | INSULATION TOOLS AND TECHNIQUES. CRYOGENIC, THERMAL, VIBRATION DATE ANNOUNCED 04 26 68 | I1642 |
| VIBRATION | VIBRATION ANALYSIS BY HOLOGRAPHIC AND CONVENTIONAL INTERFEROMETRY. OPTICS, MEASUREMENT DATE ANNOUNCED 05 03 68 | I1647 |
| VIBRATION | STUDY OF VIBRATION MEASUREMENT BY LASER METHODS. DATE ANNOUNCED 02 02 68 | I1542 |

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| VIBRATION | EFFECTS OF PRESSURE AND VIBRATION RATES UPON FRETTING WEAK, CORROSION, FRICITION | I1836 DATE ANNOUNCED 10 11 68 |
| VIBRATION | SURVEY OF THE CARGO-HANDLING SHOCK AND VIBRATION ENVIRONMENT. SHIPPING, PACKAGING | I1799 DATE ANNOUNCED 10 13 68 |
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| VISCOSIMETER | MULTIBULB VISCOMETER. LIQUID | I1609 DATE ANNOUNCED 13 22 68 |
| VISCOSITY | VISCOSITY OF GAS MIXTURES. FLUID | I1626 DATE ANNOUNCED 04 12 68 |
| VISUAL | EXTERNAL VISUAL INSPECTION CRITERIA FOR SEMICONDUCTOR DEVICES | I1761 DATE ANNOUNCED 08 09 68 |
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| WARPAGE | DEVELOPMENT OF TECHNIQUES FOR CONTROLLING WARPAGE AND RESIDUAL STRESSES IN WELDED STRUCTURES. JOINING, STRESS RELIEF DATE ANNOUNCED 11 08 68 | I1866 |
| WASTE | BIOLOGICAL WASTE TREATMENT TECHNOLOGY--PRESENT AND FUTURE. WATER TREATMENT, SEWAGE AEROBIC, BIOSIMICAL DATE ANNOUNCED 09 27 68 | I1816 |
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| WATER | A STUDY OF THE STRUCTURE CHANGE OF WATER BY MEASURING THE SOUND VELOCITY. | 11923 |
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| WATER | BIOLOGICAL WASTE TREATMENT TECHNOLOGY--PRESENT AND FUTURE. WATER TREATMENT, SEWAGE AEROBIC, BIOCHEMICAL | 11816 |
| | DATE ANNOUNCED 09 27 68 | |
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- WELDED DEVELOPMENT OF TECHNIQUES FOR CONTROLLING WARPAGE AND RESIDUAL STRESSES IN WELDED STRUCTURES. JOINING, STRESS RELIEF I1866
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